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ASTROLOGICAL AND MYTHOLOGICAL
ILLUMINATED MANUSCRIPTS
OF THE LATIN MIDDLE AGES

IV
ASTROLOGICAL MANUSCRIPTS
IN ITALIAN LIBRARIES
(OTHER THAN ROME)



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BY

PATRICK MCGURK



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PREFACE

The aim of this series of catalogues is, as the foreword to a previous volume put it, 'to form a substantial working collection of pictures and texts from which might be written a soundly documented history of medieval astrological imagery'. As is explained in the introduction, the present volume, in contrast to its predecessors, is confined to astrological, and excludes mythological, manuscripts, but it conforms to the series's general aim by trying to present all the evidence for medieval astrological pictures preserved in Italian libraries outside Rome. There are comparatively few plates in this volume and, to supplement them, a list of manuscripts grouped in families according to their illustrations has been added to the introduction, and reference to comparable illustrations already published in earlier volumes has been made at the appropriate point in the description of each manuscript. It is hoped that the catalogue is as complete as possible, but some evidence must have been overlooked and any additions or corrections will be welcomed and published at a later date.

My first debt is to the many custodians of Italian libraries whose patience and co-operation allowed me to examine a large number of manuscripts in the hope, not always realized, of tracking down illustrated astrological manuscripts: to all of them I am extremely grateful. The following persons have been kind enough to answer queries on specific points and I should like to thank them all most warmly: Miss Marie-Thérèse d'Alverny (Centre Nationale de la Recherche Scientifique, Paris); Fr. D. C. Barbieri (Bibl. Capitolare, Ivrea); Dr. A. Brasini (Bibl. Malatestiana, Cesena); Professor T. J. Brown (King's College, London); Professor F. J. Carmody (University of California, Berkeley); Dr. A. Ciavarella (Bibl. Palatina, Parma); Miss Dora Coggiola (Bibl. Civica, Bergamo); Rev. Canon A. Fontana (Bibl. Capitolare, Monza); Dr. S. Geverini (Bibl. Universitaria, Pavia); Dr. G. P. Giorgetti (Birkbeck College, London); Dr. A. Giraldi (Bibl. Nazionale Centrale, Florence); Dr. Guerriera Guerrieri (Bibl. Nazionale, Naples); Professor P. O. Kristeller (Columbia University, New York); Dr. E. Poulle (Ecole des Chartes, Paris); Dr. P. Puliatti (Bibl. Estense, Modena); Professor Caterina Santoro (Bibl. Trivulziana, Milan); Professor L. Thorndike (New York); Dr. Irma Merolle Tondi (Bibl. Laurenziana, Florence); Fr. P. Torniolo (Bibl. Cateriniana, Pisa); Professor R. Weiss (University College, London); Professor F. Wormald (Institute of Historical

Research, London) and Dr. M. Zuffa (Bibl. Civica Gambalunga, Rimini). I am more than grateful to the late Professor Gertrud Bing and to Professor H. Buchthal for their kindness in reading the typescript and in making valuable suggestions; and to Dr. E. Boer for her most helpful reading of the proofs which saved me from mistakes. Needless to say, I alone am responsible for such errors and omissions as remain.

To the Central Research Fund of the University of London, to Birkbeck College and to the Warburg Institute I am indebted for grants which made both the travelling and the procuring of microfilms and photographs possible. At Birkbeck, Professor R. R. Darlington gave me every encouragement and Miss Edith Mason was kind enough to type the manuscript. I cannot thank Miss Anne Marie Meyer enough for her patient help in seeing these pages through the press.

The work on this catalogue was begun during a tenure of a Junior Research Fellowship at the Warburg Institute between 1951 and 1953. During this period and since then I have received every assistance from the staff of the Warburg Institute, both in the Library and in the Photographic Collection. Throughout this time Professor Gertrud Bing guided the work with that combination of kindness, inspiration and dedication which was uniquely hers. The catalogue can only be offered as an inadequate tribute to her memory.

14th April, 1965

PATRICK MCGURK

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INTRODUCTION

INTRODUCTION¹

This catalogue of manuscripts preserved in Italian libraries outside Rome is confined to those astrological manuscripts of Western Europe which are illustrated with representations of the planets and stars. It thus differs from the third catalogue in this series which included mythological manuscripts. All illustrated myths, whether of gods or of heroes, whether ancient or medieval, are excluded as are the numerous romances of the later Middle Ages: the Riccardiana *Excidium Troiae* and the Venice Benoît de St. Maur, the tragedies of Seneca preserved in Siena or Milan and the slim *Roman de la Rose* of Florence, are deliberately omitted.² Where planets and stars appear in a mythological setting and where they appear in an astronomical form in diagrams or schemata, they are overlooked and their manuscripts not included.

Distinctions between the character of stellar appearances in various manuscripts are not always easy to make, and some inclusions may seem arbitrary — that of the illustrated Book II of Hyginus in Florence, the interest of which is mainly mythological, for instance, or of the planetary or stellar illustrations in the occasional Ovid, Dante and even Dati *Sfera* manuscript — but the aim of the catalogue has been to include manuscripts where pictures of the stars appear in an astrological context.

As is to be expected, manuscripts of the Italian Renaissance outnumber all others, two out of every three being recognizably fifteenth century and Italian. Among the earliest codices are two from the late ninth century: one, the long famous *florilegium* from Monte Cassino, the other, the representative, now at Monza, (Plates IIb, IX a, b) of the Carolingian astronomical compilation of 810, to which the attention of art historians has only recently been drawn by the late Wilhelm Koehler.³ The re-

¹ F. Saxl, *Verzeichnis astrologischer und mythologischer illustrierter Handschriften des Lateinischen Mittelalters in Römischen Bibliotheken*, Heidelberg, 1915; F. Saxl, *Verzeichnis astrologischer und mythologischer illustrierter Handschriften des Lateinischen Mittelalters II: Die Handschriften der National-Bibliothek in Wien*, Heidelberg, 1927; F. Saxl-H. Meier, *Catalogue of Astrological and Mythological Illuminated Manuscripts of the Latin Middle Ages III; Manuscripts in English Libraries*, edited by H. Bober, London, 1953. Referred to as Saxl I; Saxl II; Saxl III.

² The manuscripts referred to are Florence Riccardiana 881, Venice Marciana Fr. 18, Siena Comunale K. V. 10, Milan Ambrosiana E. 146 sup., Florence Laurenziana Acq. e Doni 153.

³ W. Koehler, *Die Karolingischen Miniaturen*, III, Berlin, 1960, p. 121. The manuscript has long been known to historians for its annals, but these and the fact that it was described as a Bede or Isidore manuscript caused art historians to overlook its pictures.

maining earlier codices are few: two well-known books, the Cassino Raban Maur and the Cava *florilegium*, are joined by a diffuse and rambling tenth century school book, now in Padua, and which includes an illustrated Catalogue of the Stars (Plates IIa, Va, X, XI, XIIe). The twelfth and thirteenth centuries are as poorly represented: two illustrated Ovids, one Hyginus with illustrations to Book II (Plate Ic), a Boethius *In Topica Ciceronis* with a picture of the Northern Hemisphere, and a scientific work by Nimrod, in Venice (Plates III b, Vc, VIII c), with an illustrated Pseudo-Bedan Star Catalogue, seem to be all Italian libraries have to offer from these centuries of considerable scientific activity. And from the fourteenth century there survive another Macrobius *In Somnium Scipionis* from Cesena, and an illustrated *Aratus latinus* from Siena (Plates III a), which serves as a link in time between the ninth and tenth century *Scholia Sangermanensia* books like Paris B. N. lat. 12957 and St. Gall 250 and the only two known Renaissance copies, Vat. Reg. lat. 1324 and Göttweig 7.⁴ It is not until the fifteenth century manuscripts in this catalogue are examined that the range of astrological imagery includes those derived from the East: besides the translation of Ptolemy included in the already known scientific book, Catania 87, there are two additions to the known illustrated Scotus treatise on the stars *De Imaginibus*, the crudely produced MS. 48 at the Padua Biblioteca del Seminario (Plate VI d-f), and Milan I. 90 sup., where the work is included in an astronomical compilation which looks back to the thirteenth century; an addition to the small number of Ludovicus de Angulo manuscripts, Riccardiana 3011 (Plate VII a, b)⁵: one to the few copies known of Andalò di Negro (Plate VIII a, b)⁶; a small sketch book for a star map with familiar Oriental traits; and a representative at Bergamo (Plates IV a, VI c, XII d) which matches exactly the *Tabulae Alfonsinae* MS. Vat. lat. 3099, so long ago described by Saxl.⁷ Illustrated Hyginus and Basinio da Parma manuscripts together outnumber all other Italian Renaissance manuscripts, testifying to that renewed marriage of text and picture, which Saxl stressed as one of their chief features. The manuscript of the Sicilian

⁴ For a list of such manuscripts see A. W. Byvanck, *De platen in de Aratea van Hugo de Groot* (Mededeelingen der Koninklijke Nederlandsche Akademie van Wetenschappen, Afd. Letterkunde, Nieuwe Reeks, Deel 12, No. 2, 1949) pp. 221-23. Referred to hereafter as Byvanck.

⁵ W. Gundel, *Dekane und Dekansternebilder* (Studien der Bibliothek Warburg, XIX) Hamburg, 1936, p. 89 knew St. Gall Vad. 427, Paris B. N. lat. 6561 and a French translation Paris B.N. fr. 612. In addition to Riccardiana 3011, Dr. E. Rosenbaum has described another copy, Madrid 9267.

⁶ Siena Comunale L.X. 42 is an addition to the MSS. known of this author, Add. 23770 and Paris B.N. lat. 7272.

⁷ Saxl I, pp. 80-82.

Germanicus Aratus, Laurenziana Plut. 89 sup. 43 (Plates IV b, V b, VI b), is joined by yet another South Italian copy, Naples XIV. D. 37, and it is from the illustrations in this group of Aratus manuscripts that those in the unique copy of Matteo Palmieri's *Città di Vita*, now kept in the Laurenziana as Plut. 40.53 (Plate IV c), were derived. The list of Renaissance manuscripts is completed by the five illustrated copies of the popular poem of Dati, *La Sfera*, which is of greater interest to historians of navigation than to students of planetary pictures (Plate XII a-c), and two books from Modena, both long known, a book on temperaments and conjunctions with some *genre* illustrations similar to those in the Padua Salone, and a lavish picture book on the Planets and their children made for the Sforza family.⁸

It is a catalogue clearly with few surprises and some disappointments: there are no new series of illustrations, no new illustrated texts, but the disappointments on occasion reflect historical truisms. The paucity of the earliest manuscripts testifies to the cultural backwardness or poverty of Italy in the Carolingian and Ottonian periods: of the many surviving examples of the astronomical compilation of 810, none, so far as is known can be attributed to a centre south of the Alps. The copy now at Monza, and which was at Verona before the French Revolution, is close to the model of Madrid 3307, and, divided into seven parts, represents the second and better arranged edition of this Carolingian *computus*, in many ways one of the most useful school books of the early Middle Ages: it includes extracts from Pliny, from Isidore and Martianus Capella, and its illustrations are recognizably Mediterranean in derivation, but it is, with its Anglo-Saxon and French saints in the *Rota Sanctorum*, with its frequent and extensive quotations from Bede and with its annals possibly from Lobbes, a Northern creation.⁹ The *florilegium* of Monte Cassino and the rambling, repetitive, mainly computistical scrap book, Padua Antoniana 27, which may have been made in Verona, are poor

⁸ For Dati and the history of navigation see A. E. Nordenskiöld, *Periplus*, Stockholm, 1897. The five manuscripts are Florence, Medic. Palat. 89 (Plate XII b) and 90, Naz. II. II. 83, Lucca Governativa 1343 and Parma Palat. 71. The last is included because of its interest although it is sixteenth century (see Plate XII a, c). The Modena books are Lat. 697 and 210.

⁹ Other examples in Saxl I and II are Reg. lat. 309, Vat. lat. 645, Vienna 307. For further bibliography see under Monza F. 9/176 (CCXLVI). The Madrid manuscript has recently been studied by Koehler, *op. cit.*, pp. 119-27 who remarks upon the two articles by Neuss which first brought the manuscript to the notice of art historians ("Ein Meisterwerk der karolingischen Buchkunst aus der Abtei Prüm", *Spanische Forschungen der Görresgesellschaft*, Reihe I, Bd. 8, Münster i. W., 1940, pp. 37-64; "Eine karolingische Kopie antiker Sternzeichenbilder im Codex 3307 der Biblioteca Nacional zu Madrid", *Zeitschrift des Deutschen Vereins für Kunstwissenschaft*, 8, 1941, pp. 113-40).

things, both in numbers and quality, to set beside the many illustrated astrological codices of Carolingian Francia and Ottonian Germany.¹⁰ Too much must not be made of arguments from chance survival, but the evidence suggests that the flame of antique astrological imagery in Italy was sputtering in the ninth and tenth centuries. *Computi* were certainly needed in Italian monasteries of this period, but they seem to have forgone the luxury of an illustrated quire of star pictures which were so often found in their counterparts north of the Alps. Whilst remembering that many manuscripts may not have survived the disasters of later centuries and that the illustrated manuscript of Germanicus discovered by Poggio in Sicily is thought to have been Carolingian, the contrast between the abundance of splendidly illustrated star books north of the Alps and their paucity in Italy seems to reflect a historical fact, of which the history of kingdoms, of monasteries, of schools of learning provides other illustrations.¹¹

One of the chief sources of eleventh, twelfth and thirteenth century science was, of course, the translation of Arabic and Greek works in Italy and Spain, and this work of translation by-passed existing sources of knowledge and made some of them irrelevant. This is one obvious explanation for the infrequency of Aratea illustrations from these centuries in Italian libraries, and it is interesting that when they appear they do so in an old-fashioned context. Take Venice Lat. VIII. 22 (2760), a thirteenth century manuscript containing the rare work of Nimrod the Astronomer, which was discussed by Haskins many years ago: included in the discussion of Nimrod's work is the Pseudo-Bedan star catalogue, but the work, which shows "no trace of Arabic terms or of the Arabic astronomy", is, in Haskins's words, "plainly anterior to the introduction of Saracen learning into Latin Europe".¹² The illustrations look back to the ninth century, to the pictures in Cassino 3, through those of Padua 27 (Plates II a, III b, V a, c, X, XI, XII e), and they show no connections with the new illustrations of the twelfth century. Again, Madrid 19, produced at Monte Cassino in the twelfth century, has remarkable antique-looking illustrations to the Germanicus Aratea, but the pictures appear in a setting provided by Bede and the Carolingian computus.¹³

¹⁰ For Padua see pp. 64-72 and D. A. Bullough, *Scriptorium* (forthcoming).

¹¹ This statement may require much qualification in view of recent assessments of Italian culture and also when Professor B. Bischoff's list of ninth century manuscripts is published.

¹² C. H. Haskins, *Studies in the History of Mediaeval Science*, Cambridge, Mass., 1924, p. 342.

¹³ See G. Thiele, *Antike Himmelsbilder*, Berlin, 1898, pp. 143-49, fig. 62. For a description of its texts I have relied on my own notes and on those made by Dr. E. Rosenbaum and kept in the Warburg Institute.

And again, Vat. lat. 643, the illustrations of which appeared in Saxl's catalogue, includes texts which look back to the astronomical compilation of 810.¹⁴ This association of twelfth and thirteenth century Aratea pictures and Carolingian texts is a tribute to the qualities of the Bedan and Carolingian *computus*: what was done in the eighth and ninth centuries did not require drastic revision later, and this in spite of the work of Helperic and Abbo of Fleury. And the infrequency of twelfth century Aratea pictures may reflect the greater production of the Carolingians — there was no need for new copies as most libraries already had some — but it undoubtedly reflected a declining interest in antique star pictures, which was paralleled by a greater interest in the myths of the gods and in Arabic and Greek science. What has been said of Italy clearly also applies to other countries of Europe. Saxl has outlined the declining interest in astrological pictures in England, and it is interesting to see that one only of the twelfth and thirteenth century English Aratea and Hyginus includes new texts derived from the Orient like the Toletan Tables or excerpts from Gerard of Cremona¹⁵ though, for local historical reasons, some other eleventh and twelfth century English manuscripts accompany their Carolingian-derived Aratea illustrations with some new North European scientific texts of Abbo of Fleury and of Remy of Auxerre¹⁶. Aratea illustrations in Germany or Spain or France as exemplified in Vienna Lat. 12600 from twelfth century Prüfening, in Vat. Reg. lat. 123 from twelfth century Ripoll, in Paris B. N. lat. 5239 from eleventh century Limoges, are set in a traditional context.¹⁷ The impression is of Carolingian picture and text cast together in a mould for three centuries, used in this set state, occasionally copied and occasionally misunderstood, but with the original mould very rarely recast to admit new texts or ideas: pictorial fallings away from understanding are due, when they occur, not so much to the interpolation of new ways of representing the stars, but to the artist's distance from the ninth century. All the evidence from the ninth to the thirteenth centuries has not been assembled, but the view just expressed may be a possible hypothesis.

One textual illustration of the strength of Carolingian influence can be seen in the Anglo-Saxon illustrated Ciceronian Aratus manuscripts derived from the Carolingian Harl. 647, all of which were described in

¹⁴ See Saxl I, pp. 70-71. A German MS.

¹⁵ The manuscript is Bodl. Laud. Misc. 644, see Saxl III, pp. 386-93. Arundel 339 (Saxl III, pp. 93-98), which also has new texts, is South German.

¹⁶ Such as Royal 13 A. XI. See A. Van de Vyver, "Les oeuvres inédites d'Abbon de Fleury", *Revue Bénédictine*, 47, 1935, pp. 141, 145; id., "Les plus anciens traductions médiévales de traités d'astronomie: Xe-XIe siècles", *Osiris*, I, 1936, pp. 658-91.

¹⁷ See Saxl II, pp. 159-63; I, pp. 45-59 for the first two.

Vol. III of Saxl's catalogue. Van de Vyver many years ago pointed to the identical cluster of texts found in all these books¹⁸ and it is interesting that they include a group of texts which were clearly taken from the edition in seven books of the Carolingian compilation of 810, as the following list shows:

Harl. 647 and Anglo-Saxon books:	810 Compilation as seen in Monza:
De Concordia Solaris Cursus et Lunaris	IV. 24-5
De Concordia Maris et Lunae (PL 90, 605-6)	IV. 26
De praesagiis tempestatum (Pliny, 18. 340-65)	V. 12
De mensura et magnitudine terrae (Macrobius, I. 20, 14-32)	VI. 4-5
De mensura lunae (Mart. Cap., 8. 860)	VI. 6
Quo magnitudo terrae depraehensa est (Mart. Cap., 6. 598)	VI. 7
De positione et cursu 7 planetarum (Pliny, 2. 8-9; 32-44)	V. 3
De intervallis earum (Pliny, 2. 20-22; 83-84)	V. 4
De absidibus earum (Pliny, 2. 15-16; 59-64)	V. 5
De cursu earum per zodiacum circulum (Pliny, 2, 16; 66-67)	V. 6
Dimensio caelestium spatiorum secundum quosdam	V. 10
De mundano anno (Macrobius, XI. 2, 5-17)	III. 5

The presence of these extracts in two separate compilations in manuscripts varying in date from 810 to 1120 is another instance of the influence of Carolingian texts, and — as these texts accompanied what were Carolingian pictures — of Carolingian imagery. The Sicilian Germanicus manuscripts of the Italian Renaissance provide a further illustration of the way in which particular groups of texts and pictures always maintain the same alliance: that is, a particular illustrated text always seems accompanied by a select assembly of excerpts. Take the texts found in Vat. Urb. lat. 1358:

- fol. 2r-2v : (Arati Genus).
- 2v-4v : Aratea.
- 4v-37r : Germanici Caesaris Aratea.
- 37r-39r : Arati Phaenom. Reliquiae.
- 39r-41r : Aratea de Sole et Luna.

¹⁸ Van de Vyver, "Abbon de Fleury", pp. 142-43.

- 41v-45r: Excerpt from Pliny 18.
 45v-47r: Further excerpt from Pliny 18.
 47r-47v: De polis mundi.
 47v-54v: Third excerpt from Pliny 18.

This complex of texts is found in the other Sicilian Germanicus manuscripts, but there is a further nucleus of texts which at least two of these manuscripts share with three other non-Sicilian manuscripts:¹⁹

- Hyginus III-IV (Book IV illustrated).
 De differentia temporum ortus signorum (Mart. Cap., 8. 844-5).
 Hyginus I-II (Book II paraphrased).
 De circulis planetarum (Mart. Cap., 8. 316-331).
 De polis.

It is interesting that the five manuscripts which share this further nucleus of texts are iconographically related: another instance, reminiscent of the Carolingians, of an alliance of text and picture.²⁰ Some Renaissance Hyginus manuscripts share a similar limitation of contents: four in particular place Book III before Book II of Hyginus while two others confine their selection to the second and third books in the correct order.²¹ The particular complex of texts found in the Sicilian Germanicus manuscripts and their relatives is, incidentally, one slight argument for attributing the model to the Carolingian period since some of these extracts first survive from ninth century copies and since such prolixity and repetitiveness would have been possible at this period.

Two of the most striking features of English stellar illustrations in the Middle Ages were its almost complete disintegration and its failure to make contact with the renewal of astrological imagery effected in Sicily and Spain.²² A disappointment of the present catalogue has

¹⁹ The Sicilian Germanicus manuscripts are Barb. lat. 76, Barb. lat. 77, Urb. lat. 1358, Florence Plut. 89 sup. 43, Naples XIV D. 37, Madrid 8282, Malvern Dyson Perrins 84, Add. 15819, Egerton 1050, New York Pierpont Morgan 389.

²⁰ Of the Sicilian Germanicus manuscripts Urb. lat. 1358 and Plut. 89 sup. 43 have this nucleus of texts. Vat. lat. 3110, a book which belonged to Coluccio Salutati, Pavia Aldini 490 (itself closely related by its illustrations to Urb. lat. 1358) and Florence Magl. XI. 114 vol. 1 (the illustrations of which are close to those in Plut. 89 sup. 43) are the other three manuscripts possessing these extracts. Plut. 89 sup. 43 places Hyginus I-II at the end, and not in the middle, of the group of texts.

²¹ The four mentioned are Milan Trivulziana N. 690 (see pp. 45-6; this confines its texts to these two Hyginus books), Milan Ambrosiana T. 47 (see pp. 44-5), Cambridge Fitzwilliam 260 (see Saxl III, pp. 439-40) and Oxford Can. Misc. 46 (see Saxl III, pp. 336-40). The two manuscripts confining their texts to books II and III of Hyginus in the correct order are Vat. lat. 3109 (see Saxl I, pp. 87-88) and Verona CCLXI (see pp. 86-7).

²² See Saxl III, pp. XXIV-XXXIV.

been the absence of any South Italian or Sicilian manuscripts from the important centuries, the twelfth and thirteenth. It is not that examples of such works are entirely absent, but, as has been seen, they come from the fifteenth century, when most things are abundant. Earlier examples are preserved outside Italy: the earliest illustrated text of the Latin translation, made in Sicily in the twelfth century, of Ptolemy's *Syntaxis* is the Paris Arsenal lat. 1036, itself written in Sicily or Southern Italy in the thirteenth century, the earliest illustrated Scotus manuscript is Munich Lat. 10268, which was written in Italy about 1340, and the earliest surviving copy of the Latin *Abū Ma'shar*, Paris B.N. lat. 7330 was, as Saxl has shown, based on a twelfth century South Italian model.²³ It is easy to attribute the scarcity of these manuscripts to chance or to their original rarity or to the continued occupation of South Italy by alien dynasties, but it is also possible that the pictures of the stars played a smaller part in twelfth and thirteenth century scientific works than they had done in Carolingian and post-Carolingian texts. It has already been seen that Aratea illustrations tended to be associated in the twelfth and thirteenth centuries with traditional texts, and it may be at least possible that the recently translated texts were more generally unaccompanied by stellar illustrations than the *computi* of an earlier age. The scriptoria of the twelfth and thirteenth centuries have left numerous scientific works in Italian libraries, but no stellar figural representations: Sacrobosco or Gerard of Cremona or Thaddaeus of Parma rely on diagrams for the exposition of their argument.²⁴ The stars — or, at least, the signs of the zodiac — seem to make their appearance solely in ecclesiastical calendars.²⁵ Such revival of astrology and a worship of the stars as there was in the twelfth and thirteenth centuries has left few relics in Italian libraries, disappointingly few in view of later exemplars like the *Salone*.

In the Italian Renaissance, as has long been known, the stars came into their own, no impediments obstructing the new marriage of text and picture. The images were intelligible both in the light of the text they illustrated and as recreations of the lost classical past. Being intelligible,

²³ The Paris manuscripts will be described by Dr. E. Boer in a further volume of this *Catalogue*. For Paris lat. 7330 see Saxl III, pp. LXII-LXVI. For Munich Lat. 10268 see Saxl II, p. 17, III, pp. XXV-XLIII.

²⁴ Examples taken at random from my notes are Bologna Comunale A. 51, Sacrobosco and Boethius; Pavia Ticinesi 54, Sacrobosco, *De Sphaera*; Venice lat. 340 (2018), Thadaeus of Parma, *Expositio super theoricam planetarum Gerardi Cremonensis*; Florence Plut. 89 sup. 45, Gerard of Cremona translation of *Almagest*.

²⁵ These calendars, of which there are many examples in Italian libraries, have not been included in the catalogue. The question of the source for later Italian illustrations of the new imagery must be left open.

they tended to be uniform: one Renaissance manuscript was much like another iconographically speaking, a Florence Hyginus being rather like a Venice Basinio da Parma, the stellar illustrations to Dati's commentary on Palmieri's poem, *Città di Vita*, being taken from the Hyginus section, and the hemisphere from the Aratea section of a Sicilian Germanicus manuscript (Plate IV c).²⁶ It is this uniformity which is the striking feature of the fifteenth century manuscripts in this catalogue: the manuscripts conform to an accepted standard. The recovery of the past and acceptance of a standard involved selection, not the collective conserving of the Carolingians. The Sicilian Germanicus Aratea and Hyginus account for nearly all the ancient illustrated classical star texts revived by the Italians of the fifteenth century. There was no revival of the Carolingian illustrated catalogues, the Pseudo-Bedan or the anonymous Catalogue of the stars, there was only slight interest in the other Carolingian commonplaces, the Aratus latinus or the Ciceronian translation of Aratus; that is why the revival of the *Scholia Sangermanensia*, apart from the Sicilian group, in Siena L. IV. 25 and in Vat. Reg. lat. 1324 is of such interest (Plates IIIa, Ia).²⁷ The fifteenth century also preserved its Oriental astrological past: copies were made, as we have seen, of Scot, of Ludovicus de Angulo, of the Alphonsine Tables, though they were by no means as numerous as those of Hyginus and of Germanicus.²⁸ This presence of the Oriental past partly accounted for the absence of complete uniformity among the Renaissance books — classic examples of such presences are the Fluvius in the Ravenna Basinius for Eridanus (f. 9r), the Algol for Medusa in the Bologna (f. 8r) and Parma (f. 5r) Basinius; and the star sketch book (Plates IV d, V d), reminiscent of the illustrations in the star map, Vienna lat. 5415, described by Saxl — though many variations among the Renaissance Hyginus and Basinio da Parma copies are the result

²⁶ The celestial map on f. 41v of Palmieri Plut. 40. 53 (Plate VIII d) is related to the heavenly map in the Aratea section of a Sicilian manuscript (f. 3v of Urb. lat. 1358, for instance); and the horned Aquarius-type Eridanus on f. 43r of the Palmieri manuscript comes from the similar Eridanus in the Hyginus section of the Sicilian manuscript (f. 135v in Urb. lat. 1358 or f. 93r of Pavia Aldini 490 are examples). Dati's Latin commentary on the astrological section of Palmieri's poem is based, it is worth noting, on extracts from Cicero's *De Natura Deorum* and Hyginus, *Astronomica*.

²⁷ See list in Byvanck, *op. cit.*, pp. 221-23. The Siena manuscript is close to Göttweig 7 and is a faithful follower of the earlier 9th century *Scholia Sangermanensia* books. Compare Siena Bootes f. 2r (Plate IIIa) with Paris 12957 Bootes f. 65v or Siena Perseus f. 5 with Paris Perseus f. 68r or Siena Agitator f. 3r with Paris Agitator f. 66v. The Paris manuscript will be described in Dr. Boer's catalogue of the Paris astrological manuscripts.

²⁸ See above, p. XIV, notes 5-7.

of other factors.²⁹ The final point illustrated by the catalogue is a historical commonplace: many of the books were produced for private owners — consider the Sicilian Germanicus manuscripts alone — and some, the Modena planetary book, for instance, seem to have been conceived, like the puzzling Richard II astrological book Bodl. 581 or the Berri Book of Hours, for the delight and interest of a particular person or family.³⁰ We have come a long way from the monastic *computi* of the ninth century, with their emphasis on the calculation of feasts common to all in the community.

The history of medieval illustrations to Hyginus can be touched upon here as it illuminates one or two points already made. No illustrated Hyginus manuscripts survive from the Carolingian period, though at least two Carolingian copies accompany illustrated versions of the *Scholia Sangermanensia*.³¹ The earliest Hyginus manuscripts with pictures date from the eleventh century, possibly the earliest being the Ademar of Chabannes book, Leiden Voss. lat. oct. 15 fasc. XIII, made at St. Martial near Limoges about 1025.³² The Leiden manuscript shares with Munich Lat. 10270 from Mannheim the distinction of being the only two out of twelve Hyginus manuscripts, which have survived from 1025 to 1225, to illustrate Book III, and not Book II, the interest of which is primarily mythological. The two manuscripts derived their illustrations from separate sources. The Leiden manuscript derived its pictures from a set accompanying the Pseudo-Bedan Catalogue of the Stars, a series with a strong mythological interest, showing Hercules and the serpent on the tree and Andromeda with the toilet articles: in this case, the derivation can be traced with something like certainty from an illustrated Pseudo-Bedan catalogue, Paris B.N. lat. 5239, which has illustrations very similar

²⁹ The star sketch book is Florence Nazionale Angeli 1147. Compare Perseus f. 7r with Perseus on map Vienna 5415, f. 168r (Saxl II, Pl. IX) or Cassiopeia f. 2r with Cassiopeia Vienna 5415, f. 168r (Saxl II, Pl. IX). Some of these factors will be touched upon in a later paragraph. Interesting is the Bootes skin, as it appears in the *Scholia Sangermanensia*, which becomes a wing in Vat. Reg. lat. 1324, f. 28v (Plate Ia).

³⁰ The prevalent interest in horoscopes and astrological prophecy has not apparently left much trace in our manuscripts. It must be noted that some of our fifteenth century manuscripts seemed to have belonged to monasteries: Ravenna Classense 120, Bergamo Civica 1177 and Cortona 184 are possible examples.

³¹ The two copies are Dresden Landesbibliothek Dc. 183 and St. Gall 902.

³² For this famous manuscript see Thiele, *op. cit.*, pp. 153-54, fig. 66; A. W. Byvanck, *Bull. Soc. Française Repr. MSS. à peintures*, XV, 1931, p. 70. On Ademar of Chabannes see L. Delisle, "Notice sur les monuments originaux d' Ademar de Chabannes", *Notice et extraits des manuscrits*, XXXV, 1896, pp. 241-358; J. Lair, *Études critiques sur divers textes du Xe et XIe siècles. Histoire d'Ademar de Chabannes*, Paris, 1899, pp. 93-94, 97 foll.

to those in the Leiden book and a Limoges chronicle expiring in 1025.³³ The manuscript from Mannheim has a more astronomical set of drawings, omitting the tree and serpent from Hercules, showing Andromeda without any toilet articles and Sagittarius as a satyr.³⁴ Of the ten Hyginus manuscripts which illustrate Book II and all of which ante-date the Italian Renaissance, most agree with the illustrations of Thiele's *Phillippicus-Class*, a series with a reasonable astronomical interest, illustrating Hercules without the Hesperides dragon and Sagittarius as a satyr.³⁵ Some of the manuscripts are very close to each other, in particular St. Paul in Lavantthal XXV. 4. 20 and Florence Plut. 29.30 (Plate Ic), which is found in this catalogue. One detail illustrates the closeness of these Hyginus illustrations to the Madrid-Monza redaction of the 810 astronomical compilation: this particular class is the one which illustrates the Aselli at the side of Cancer, and this illustration is found in the Hyginus now at Baltimore, and a reminiscence of it in the form of one donkey in the Florence Hyginus.³⁶ The illustrations to the two English manuscripts, Bodl. 614 and Digby 83, show some variations within a general conformism, but then they illustrate texts on the constellations, which are only partly taken from Hyginus.³⁷ Vienna Lat. 51 and Plut. 29.30 shorthand the classical picture of Eridanus, the first by showing a flowing urn, the second by showing flowing water, an image startlingly suggestive of the oriental Fluvius, until its source is recognized.³⁸ This reduced picture of Eridanus appears again in Berlin Lat. oct. 44, a fourteenth century manuscript where excerpts from Hyginus are illustrated, and which is related to a series of German star picture books (Pal. lat. 1369, Pal. lat. 1389, Munich Germ. 595, Munich Lat. 59), distinguished by a Bootes armed with a sword and a whip, a Cassiopeia seated on a chair shaped like two beasts, and an Auriga armed with a whip whose feet

³³ Paris B.N. lat. 5239 will be described in Dr. Boer's catalogue. Compare Bootes or Perseus in the two manuscripts (Leiden, foll. 173r, 175v, Paris 5239, foll. 217r, 220v). I am indebted to Mlle. M.-T. d'Alverny for information concerning this manuscript.

³⁴ F. Boll, *Sphaera, Untersuchungen zur Geschichte der Sternbilder*, Leipzig, 1903, pp. 111, 131, where Sagittarius and Eridanus are reproduced.

³⁵ A list is given in Byvanck, *op. cit.*, pp. 230-31. No. 117 in Byvanck's catalogue, given as belonging to a London art dealer, is now Baltimore, Walters Art Gallery W. 734. It is noticeable how many of these Hyginus manuscripts are North European. The *Phillippicus-Class* is described in Thiele, *op. cit.*, pp. 157-58.

³⁶ Baltimore Walters 734, f. 20r (found apart from Cancer) and Florence Plut. 29. 30, f. 19r.

³⁷ See Saxl III, pp. XXVI, XXVIII, 313-16; XXVI, XXVIII, 314-16.

³⁸ Vienna Lat. 51, f. 154r (Saxl II, p. 75) and Florence Plut. 29. 30, f. 22r.

seem to be replaced by wheels, though, in Pal. lat. 1369, the misunderstanding is made intelligible by the feet being placed on the wheels (Plate I d).³⁹

The evidence of Hyginus illustrations before the Renaissance suggests that, though no Carolingian pictures survive, the images used in the eleventh and twelfth century manuscripts were probably based on Carolingian exemplars: the connections of the Leiden manuscript and of the many copies illustrating Book II seem to demonstrate this. It suggests, further, that greater interest was shown in Hyginus the mythologist than the astronomer, and that pictures meant for a particular text were farmed out to serve other texts, in this way contrasting with the particular alliances of text and picture referred to in an earlier paragraph. This farming out was not confined to Hyginus manuscripts: a Germanicus manuscript at Aberystwyth, which contains the text and the particular frontispiece of Madrid 19, has illustrations which generally agree, not with Madrid 19, but with the more mythological Pseudo-Bedan catalogue — its illustrations are not too unlike those in the two Limoges manuscripts mentioned above, Leiden 15 and Paris B.N. lat. 5239.⁴⁰

With the Italian Renaissance, the Hyginus manuscripts take on a new unity. They illustrate Book III, not Book II, and dutifully mark the position of the stars on the figures. They give Bootes a shield (Plate IV c), separate Andromeda from her chains and rocks, rid Perseus and Hercules

³⁹ Vat. Pal. lat. 1369 is described in Saxl I, pp. 16-20. Berlin Lat. oct. 44 is now in the Depot der ehemaligen Preussischen Staatsbibliothek at the Universitätsbibliothek Tübingen. Many of these manuscripts have quires of illustrations without texts. This practice is only found in fifteenth century astrological books, Greek (Vat. gr. 1087) and Latin (Florence Magl. XI. 141). How far back it goes cannot be told, though it is curious that it appears a Renaissance phenomenon. Arranging illustrations under columns or several within one frame seems equally rare in astrological manuscripts, the earliest example of the first being the already-mentioned Munich 10270, and the earliest of the second Boulogne 188, f. 29r, though the most striking use of the practice for saving space is in the Palmieri book, Plut. 40. 53. Pal. lat. 1389 is one illustrated manuscript not described in Saxl I. Others, besides Reg. lat. 1283, which was deliberately omitted from the Rome catalogue, include: Chigiani lat. H. IV. 20 (XV), Hyginus; Chigiani lat. M. VII. 148 (XV), Dati, *Sfera*; Pal. lat. 291 (XV), Rabanus Maurus; Pal. lat. 1377 (XI-XV), pen drawings to tables; Pal. lat. 1452 (XV), German texts on zodiac and planetary children; Reg. lat. 1324 (XV), illustrated Scholia Sangermanensia; Urb. lat. 1384 (XV), astrological text of Oriental derivation; Vat. lat. 5714 (XV), astronomical tables. For Pal. lat. 1452, see Tübingen M. d. 2 and related MS. Wolfenbüttel Aug. 29.14.4°.

⁴⁰ The manuscript is 735 C at the National Library of Wales, see *Handlist of Manuscripts in the National Library of Wales*, I, Aberystwyth, 1943, p. 54. The frontispiece to Madrid 19 is on f. 22. Bootes and Andromeda in Aberystwyth (f. 29r and f. 38r) can be compared with the same in Paris B.N. lat. 5239. I learnt of the Aberystwyth manuscript through photographs in the Warburg Institute.

of their oriental weapons, and remove the cart and horses from Auriga.⁴¹ The stars are again related to their texts, but the general conformism is not absolute. Eridanus, like Perseus and Hercules, is sometimes naked and sometimes clothed; Plut. 89 sup. 43 gives its Perseus winged feet, and its Auriga a cart, pulled by two horses and two oxen (Plate VI b), and Cortona 184 (265) seems eccentric, representing Eridanus by Fluvius, and omitting to give Bootes his shield. The inconsistencies in Cortona — and in Plut. 89 sup. 43 — reflect the absence of absolute uniformity, the maintenance of earlier traditions. They are not sufficient in themselves to affect the impression of uniformity given by the Renaissance Hyginus — and, for that matter, Basinio da Parma — manuscripts in this catalogue.

Many images of the Carolingians, many texts were re-used, or re-created at the time of the Italian Renaissance. But some texts and images equally disappeared from use: Hyginus Book II was no longer illustrated, and Eridanus as Oceanus or as a bust with the horn of plenty, Andromeda with the toilet articles, Agitator with a shield, Sagittarius as a satyr, the two donkeys at the fountain in the company of Cancer, these had, by the end of the fifteenth century, gone the way of many anonymous and signed computistical texts of the Carolingian period. The pictures of stars not only changed during the Middle Ages, but they altered with the purposes they served, the texts they illustrated.

⁴¹ For Bootes with shield see any Hyginus manuscript (Plates IV b, c) save Vat. lat. 3109 and Cortona 184 (265). For Andromeda see any Hyginus manuscript save Cortona 184 (265), Plut. 89 sup. 43, formerly Chester Beatty MS. Phillips 6972. For Auriga see any Hyginus manuscript save Plut. 89 sup. 43.

SYNOPSIS OF MANUSCRIPTS GROUPED ACCORDING TO THEIR ILLUSTRATIONS

I. PTOLEMAEI SYNTAXIS (Latin translation made in Sicily in the twelfth century: *Liber de locis stellarum fixarum*).

1. Catania, Bibl. Univ. 87 (ext. 87 int. 85), foll. 7-19v. XV. Identical with Vienna 5318, derived from type of Paris Arsenal 1036.

II. CLAUDII GERMANICI CAESARIS PHAENOMENA ARATI.

- a. Group of the Sicilian manuscript.
2. Florence, Bibl. Laur. Plut. 89 sup. 43, foll. 6v-55r. XV.
3. Naples, Bibl. Univ. XIV. D. 37, foll. 3v-43r. XV.
- b. Scotus manuscripts.
4. Milan, Ambros. I. 90 sup., foll. 216v-41v. XV.
5. Padua, Bibl. Seminario 48, pp. 5-53. XV ex.

III. SCHOLIA SANGERMANENSIA.

6. Siena, Bibl. Comunale L. IV. 25, foll. 1r-6v. XIV ex.

IV. MEDIEVAL STAR CATALOGUE.

- a. Group of the Matritensis (Madrid 3307).
7. Monza, Bibl. Capit. F. 9/176, foll. 61v-69v. IX ex. Close to Madrid 3307.
- b. Bedae Catalogus Signorum Caeli.
8. Monte Cassino, Archivio della Badia 3, pp. 177-92. 874-892.
9. Padua, Bibl. Antoniana 27, foll. 130v-133v. X.
10. Venice, Bibl. Marciana Lat. VIII. 22 (2760), foll. 31v-36r. XIII.

V. HYGINI ASTRONOMICA.

- a. Manuscripts with illustrations as in the Matritensis (IVa. above).
11. Florence, Bibl. Laur. Plut. 29. 30, foll. 5r-25r. (Book II illustrated). XII. Close to St. Paul in Lavantthal XXV. 4. 20.
- b. Italian Renaissance manuscripts.
12. Cortona, Libreria del Comune 184 (265), foll. 38v-55r. XV ex.
13. Florence, Bibl. Laur. Plut. 89 sup. 43 (see above, no. 2), foll. 72v-91v. XV. Close to Vat. lat. 3110 and Magl. XI. 114. 1 (no. 14 here).
14. Florence, Bibl. Naz. Magl. XI. 114. 1, foll. 9r-11r. XV. Close to no. 13 and to some illustrations in Vat. lat. 3110.
15. Florence, Bibl. Naz. Magl. XI. 141, foll. 58r-67v. XV².

16. Milan, Bibl. Ambros. T. 47 sup., foll. 47v-61r. XV².
17. Milan, Bibl. Trivulziana N. 690 (E. 83), foll. 2v-33v. XV². Close to Oxford Can. Misc. 46 (19522).
18. Pavia, Bibl. Universitaria Aldini 490, foll. 77v-97r. XV ex. Identical with Vat. Urb. lat. 1358.
19. Siena, Bibl. Comunale L. VI. 25, foll. 34r-49v. XV.
20. Verona, Bibl. Capitolare CCLXI, foll. 64v-85r. XV ex.

VI. BASINIUS PARMENSIS ASTRONOMICON.

Most agree with the Italian Renaissance Hyginus illustrations.

21. Bologna, Bibl. Comunale A. 173, foll. 5v-22v. XV².
22. Florence, Bibl. Marucelliana C. CCLI, foll. 6v-20v. XV².
23. Parma, Bibl. Palatina Parm. 27, foll. 34v-52v. XV².
24. Parma, Bibl. Palatina Parm. 1008, foll. 3v-12r. 1458. Close to Oxford Bodl. 646 (2864). XV.
25. Ravenna, Bibl. Classense 120, foll. 4r-14v. XV².
26. Venice, Bibl. Marc. Lat. XII. 194 (4178), foll. 5r-19v. XV².

VII. MATTHAEUS PALMERIUS, CITTÀ DI VITA.

27. Florence, Bibl. Laur. Plut. 40. 53, foll. 41v-46r. XV². Derived from Hyginus and from Sicilian MS. illustrations.

VIII. DATI, SFERA (illustrations of planets).

28. Florence, Bibl. Laur. Medic. Palat. 89, foll. 3r-5r. XV ex.
29. Florence, Bibl. Laur. Medic. Palat. 90, foll. 3r-4v. XV ex. Identical with no. 31.
30. Florence, Bibl. Naz. II. II. 83, foll. 193r-94v. XV ex.
31. Lucca, Bibl. Governativa 1343, foll. 3r-4v. XV ex. Identical with no. 29.
32. Parma, Bibl. Palatina Palat. 71, foll. 3v-5r. XVI in.

IX. MANUSCRIPTS WITH ORIENTAL FEATURES.

33. Bergamo, Bibl. Civica A. Mai 1177 (Σ II 2), foll. 91r-112v. XV². Close to Vat. lat. 3099.
34. Florence, Bibl. Naz. Angeli 1147 A. 6. XV ex. Star picture book.
35. Florence, Bibl. Riccardiana 3011. XV ex. Ludovicus de Angulo.
36. Siena, Bibl. Comunale L. X 42. XV¹. Andalò di Negro.

X. OTHER MANUSCRIPTS.

- a. Containing illustrations of planets with or without their children.
37. Cava, Arch. Badia 3, f. 202v. XI. Florilegium.
38. Florence, Bibl. Laur. Conv. Soppr. 174, foll. 12r-44r. XIV-XV. Profatius Judaeus.

39. Florence, Bibl. Laur. Plut. 40. 7, foll. 169v-209v XV. Dante.
40. Modena, Bibl. Estense Lat. 209, foll. 5v-12r. XV. *De Sphaera*.
41. Modena, Bibl. Estense Lat. 697, foll. 3r-8v. XV.
42. Monte Cassino, Arch. Badia 132, foll. 233-8, 268. 1023. Raban Maur.
 - b. Containing illustrations of zodiac.
43. Milan, Bibl. Ambros. N. 55 sup., f. 12r. XIV.² Zodiac man.
44. Milan, Bibl. Trivulz. N. 735 (C. 52), foll. 13v, 32v, 33v. XV. Ovid.
45. Monza, Bibl. Capit. B. 24/163, f. 67r. XII. Boethius.
46. Naples, Bibl. Naz. IV. F. 3, f. 20r. XIII. Ovid.
 - c. Containing schema of spheres.
47. Cesena, Bibl. Malat. Plut. XII (5) VI, foll. 1r-1v. XIV. Macrobius. Close to Oxford Can. Class. lat. 257 (18838).

LIST OF ABBREVIATIONS

- Anthol. F. Bücheler-A. Riese, *Anthologia Latina*, Leipzig, 1906.
- Bachrens A. Bachrens, *Poetae Latini Minores*, V, Leipzig, 1883.
- Breysig *Germanici Caesaris Aratea cum scholiis*, A. Breysig (ed.), Berlin, 1867.
- Carmody F. J. Carmody, *Arabic Astronomical and Astrological Sciences in Latin Translation*, Berkeley-Los Angeles, 1956.
- Cordoliani A. Cordoliani, "Contribution à la littérature du comput ecclésiastique au moyen âge", *Studi Medievali*, I, 1960, pp. 107-37; II, 1961, pp. 169-208.
- DT, DTR *Beda's opera de temporibus* ed. C. W. Jones, Cambridge, Mass., 1943: references are to *De Temporibus* and *De Temporum Ratione*.
- Flor. *Bibliotheca Casinensis seu codicum manuscriptorum qui in tabulario Casinensi asservantur series*, I, Monte Cassino, 1874.
- Hain L. Hain, *Repertorium Bibliographicum*, 2 vols., 4 pts., Paris-Stuttgart, 1826-38.
- Jones I C. W. Jones, *Beda's Pseudepigrapha: scientific writings falsely attributed to Bede*, Ithaca, New York, 1939.
- Jones II *Beda's opera de temporibus*, as above, pp. 329-95.
- Kauffmann *De Hygini memoria scholiis in Ciceronis Aratum Harleianis servata*, ed. G. Kauffmann, Breslau, 1888.
- Krusch B. Krusch, *Studien zur christlich-mittelalterlichen Chronologie*, Leipzig, 1880.
- Maass E. Maass, *Commentariorum in Aratum reliquiae*, Berlin, 1898.
- Mazzatinti G. Mazzatinti, *Inventari dei manoscritti delle biblioteche d'Italia*.
- MGH *Monumenta Germaniae Historica*.
- PL J. P. Migne, *Patrologiae cursus completus series latina*.
- Rück K. Rück, *Auszüge aus der Naturgeschichte des C. Plinius Secundus* (Programm des Königlichen Ludwigs-Gymnasiums für das Studienjahr 1887-8), Munich, 1888.
- Saxl I, II, III. F. Saxl, *Verzeichnis astrologischer und mythologischer illustrierter Handschriften des Lateinischen Mittelalters in Römischen Bibliotheken*, Heidelberg, 1915; *Verzeichnis astrol. u. mythol. illustrierter Handschriften des Lateinischen Mittelalters II: Die Handschriften der National-Bibliothek in Wien*, Heidelberg, 1927; with H. Meier, *Catalogue of Astrological and Mythological Illuminated Manuscripts of the Latin Middle Ages III: Manuscripts in English Libraries*, ed. H. Bober, London, 1953.
- Strecker K. Strecker (ed.), *Poetae Latini Aevi Carolini*, IV, Parts II & III (*Monumenta Germaniae Historica*), Berlin, 1923.
- T-K L. Thorndike—P. Kibre, *A Catalogue of Incipits of Mediaeval Scientific Writings in Latin* (revised and augmented edition), London, 1963.
- Thorndike L. Thorndike, *A History of Magic and Experimental Science*, I-IV, London, 1923-34.

- Van Wijk W. E. Van Wijk, *Le Nombre d'Or. Etude de Chronologie Technique*, The Hague, 1936.
- Zinner E. Zinner, *Verzeichnis der astronomischen Handschriften des deutschen Kulturgebietes*, Munich, 1925.

CATALOGUE

BERGAMO

BIBLIOTECA CIVICA ANGELO MAI, 1177 (Σ II 2)

Second half of XV. Italian by various hands. Parchment and paper (many quires have parchment for the outer and centre bifolia). 140 foll. 220 x 176. 34-38 long lines. 19th century binding. 16th century hand at bottom of f. 1r: *Conventus Sancti Stephani de Bergamo*, and on f. 64v a 17th century hand has written: *Est conventus Sancti Dominici de Bergamo ordinis praedicatorum (?)*. On f. 136v a 17th century hand has written: *excerpta sunt haec ex libro Antonii de Bernadigio da M'Astronomi*, and on f. 138v: *Hic liber olim fuit Magistri Georgi de Casali*. For St. Stephen's, see Ughelli, *Italia Sacra*, IV, 1719, pp. 474, 476; M. Lupo, *Codex Diplomaticus Civitatis et Ecclesiae Bergomatis*, II, 1799, p. 455.

foll. 1r-48v: *JOHANNES DE SAXONIA. SUPER ALCABITUM* (T-K 1699; ed. Venice, 18 June 1521).

f. 1r: *Vir sapiens dominabitur astris...*

f. 48r: *donec exiverit casum suum. deo gracias amen. explicit scriptus super alkabitum introductorium ad iudicia astronomicorum ordinatum parisius (?) per dominum Albertum de Saxonia anno domini 1331.*

foll. 48v-49r: *PTOLOMEUS. ALMAGESTUM* (PROLOGUS translated Gerard of Cremona: Carmody, p. 15 notes that the Latin translation of the *Almagest* includes a prologue by Abu-'l-Wafâ' Mubashshir b. Fâtik; T-K 1245; see Burney 275, f. 390v).

f. 48v: *Quidam princeps nomine Albugnase in libro suo...*

f. 49r: *vero non dulcescunt.*

foll. 49r-49v: *ARNALDUS DE VILLA NOVA. DE MORBORUM CURATIONIBUS* (many printed editions: our selections are made up of Part I with the four canons usually added at the end of the book in the printed editions).

f. 49r: *Doctrina primo de praeparantibus omnium ad utiliter operandum Magistri Arnaldi de Villa Nova. Omnes medela procedit a summo bono...*

f. 49v: *praemissa reducet in parabolas optimas. Expliciunt meditationes parabole seu canones generales curationes morborum a magistro Arnaldo de Villa Nova. Deo gracias amen.*

foll. 50r-58v: *ALBERTUS MAGNUS. SPECULUM ASTRONOMIAE* (ed. Borgnet, X, 1891, pp. 629-50).

f. 50r: Speculum Alberti Magni ordinis praedicatorum de modo studendi in Astrologia. Ocasione quorundam librorum apud quos...

f. 58v: ab eodem causate. Explicit speculum Alberci in astrologia deo gracias.

foll. 59r-60r: [PSEUDO] PTOLOMEUS. CENTILOQUIUM, 60 with commentary of ALI B. RIDWAN (? for which see Carmody, p. 16).

f. 59r: [A] liarum... (cannot be determined). Quesivisti ut hanc propositionem 60 am centilogii cum commento...

f. 60r: et quod continetur in expositione commenti Halion.

foll. 60v-68v: TRACTATUS DE NATURA CHRISTI.

f. 60v: (P)rimo suppono cum sacribus doctoribus...

f. 68v: heretice mundi fiunt et abstergant amen amen. deo gracias.

f. 69: Blank.

foll. 70r-75v: THEORICA PLANETARUM (GERARDI: Carmody, ed. Berkeley, Calif., 1942).

f. 70r: Red: Incipit Theorica Planetarum secundum Magistrum Johannem de Sacrobosco de circulo et motu solis. Circulus eccentricus dicitur vel egressus...

f. 75v: ipsi planete et non corporaliter. Finis.

Foll. 70r-73v: usual diagrams.

f. 76r: (JOHANNES HISPALENSIS ?) DE CONSTRUCTIONE ASTROLABII (secundum Messahallam) here attributed to Grosseteste.

f. 76r Incipit astrolabium secundum Liconiensem. Astrologice speculationis exercitium habere volentibus huius instrumenti rationali... (This text is a variant of the text attributed to Johannes Hispalensis in J. M. Millás Vallicrosa, *Traducciones orientales ... de Toledo*, Madrid 1942, pp. 316 (l. 14) — 321; see also Carmody, pp. 169-70)

f. 76r: sunt apprehendantur.

foll. 76r-86r: MESSAHALLA: PRACTICA VEL UTILITAS ASTROLABII tr. Johannes Hispalensis; and (ROBERTUS ANGLICUS ??): TRACTATUS QUADRANTIS. The beginning of this collection of texts partly agrees with the Messahalla printed by R. T. Gunther, *Early Science in Oxford*, V, Oxford 1929, pp. 133-232 and the last few sections agree with the tract on the quadrant

published by P. Tannery, "Le traité du quadrant de maître Robert Angles", *Notices et extraits des manuscrits de la Bibliothèque Nationale*, XXXV, 2, Paris 1897, pp. 561-640, and reprinted in P. Tannery, *Mémoires scientifiques*, V, pp. 118-97. The sections corresponding to either Gunther's or Tannery's work are indicated. On Robertus Anglicus see L. Thorndike, "Robertus Anglicus", *Isis*, XXXIV, 1943, pp. 467-69; "Who wrote Quadrans Vetus?", *Isis*, XXXVII, 1947, pp. 150-53 and XLIX, 1958, p. 41.

f. 76r: Primum igitur horum est armilla per quam astrolabium suspenditur... (= Gunther part. 3). f. 77r: De gradu solis per diem mensis inveniundo et e converso. f. 77r: De nadir solis inveniundo. f. 77v: De altitudine solis per astrolabium invenienda; De horis diurnis inequalibus et earum iustificatione ac de ascendente. f. 78r: De altitudine solis in meridie habenda et aliarum stellarum fixarum; De inventione hore inequalis diei per alidadam; Ad inveniendum qua hora oriatur vel occidat aliquod(?) signum vel stella. f. 78v: Ad cognoscendum cum quo gradu aliqua stella mediet centrum; De altitudine zenit solis (Gunther 17); De zenit ortus solis et aliarum planetarum habendo (Gunther 18); Ad habendas quattuor mundi plagas (opening like Gunther 19). f. 79r: Quantum declinet aliquis gradus zodiaci vel stella: De latitudine regionum invenienda. f. 79v: De longitudine inter duas regiones. f. 80r: De notitia tabule almucantarath (Gunther 23); De hora habenda per tabulam latitudinis (close to Gunther 24); Ad habendum quot miliaria sint inter duas regiones per latitudinem et longitudinem (Gunther 26). f. 80v: De ascensione signi in circulo directo; De ortu et occasu signorum in circulo obliquo; De cognitione stellarum ignotarum positarum in astrolabio. f. 81r: De locis planetarum inveniendis; Ad sciendum specialiter in quo gradu sit luna; De latitudine planetarum. f. 81v: De retrogradatione directione et statione planetarum; De revolutione sive gradu ascendente alicuius anni; De equatione 12 domorum celi (Opening close to Gunther 37, second part deviant from Gunther 38). f. 82r: De aspectibus planetarum (close to Gunther 39). f. 82v: Sequitur de mensurationibus eorum per quadrantem et primo de mensura altitudinis turium per umbram. f. 83r: De altitudine solis per umbram scienda. f. 83v: De altitudine accessibili et inaccessibili mensuranda. f. 84r: De planitie mensuranda. f. 84v: Item de mensura alicuius rei per umbram. f. 85r: De mensurationibus eorum sine quadrante et primo de mensura altitudinis rei per virgam (Tannery

60-62). f. 85v: De eodem per speculum (Tannery 63); De mensura plani per virgam (Tannery 65); De eodem per speculum (Tannery 68); De mensuratione plani in longum et latum per figuram eius (Tannery 69-76). f. 86r: De investigatione grossitie columnne; De capacitate modii (Tannery 81-83); De capacitate dolii (Tannery 84-87); De puteorum capacitate per quadrantem (Tannery 78-79). f. 86r: et productam dabit putei capacitatem. Finis.

foll. 86v-89r: CAMPANUS. DE QUADRANTE (see Thorndike, *Isis*, XLIX, 1958, p. 39, n. 95; T-K 1405).

f. 86v: Incipit tractatus de quadrante separato sive per se facto secundum eundem. Scire debes quod circulus solis duas...

f. 89r: profunditates et planities metiri. Hec itaque de pratica quadrantis dicta sufficiat. Explicit tractatus de quadrante secundum dominum Liconiensem. Qui planete sunt benigni et qui maligni habentur per hos versus, Jupiter atque Venus boni sunt, Saturnus Marsque maligni, Sol et Mercurius cum Luna sunt mediocres.

foll. 89r-90r: DE COMPOSITIONE QUADRANTIS.

f. 89r: Incipit tractatus de compositione quadrantis. Intentio nostra cum quadrantis compositione manifestare...

f. 90r: cum perpendiculo et curriculo finis.

f. 90v: Blank.

foll. 91r-112v: TABULAE STELLARUM (Ptolemaic basically with the following exceptions: errors due to carelessness; f. 92r stars 44-72 increase of 17° O' over Ptolemaic longitudes, not $17^{\circ} 8'$ as in the Alphonsine tables; foll. 92v-96r stars 73-255 where longitudes are as in the Alphonsine tables and where they have been corrected to bring them into line with those found in Ptolemy's star catalogue).

f. 91r: Illa que est super extremitatem caude. 2. (Longitudo) $0^{\circ} 10'$. (Latitudo) $0^{\circ} 3'$.

f. 112v: Stelle tanguēbe dicuntur comete finis est.

PEN DRAWINGS with position of stars indicated (very close to Vat. lat. 3099, Saxl I, p. 81, pls. II. 3; IX. 20):

f. 91r: Urse minoris; Urse maioris. f. 92r: Draco. f. 92v: Inflammatus; Tegnus aut ululans (Plate IVa). f. 93r: Corona (septentrionalis). f. 93v: Algiechus (Plate XIIId). f. 94r: Allor. f. 94v: Heresim; Cassiope. f. 95r:

Calcubellus. f. 95v: Aiaioth (Plate VIc). f. 96r: Afrirenis et est Alange. f. 96v: Serpens alange. f. 97r: Istus; Aquila; Delfin. f. 97v: Equus prior; Equus secundus. f. 98r: Andromeda. f. 98v: Triangulus; Ymaginum. f. 99r: Thaurus. f. 100r: Gemini. f. 100v: Cancer. f. 101r: Leo. f. 101v: Virgo. f. 103r: Arubenens; Scorpio. f. 103v: Sagitarius. f. 104v: Alcancurus. f. 105r: Ydrudurus. f. 105v: Echigere. f. 106v: Cetus. f. 107r: Orion. f. 108r: Fluvius. f. 108v: Lepus; Canis. f. 109r: Canis antecessens. f. 109v: Navis. f. 110r: Ydra. f. 110v: Vasis. f. 111r: Corvus; Centaurus. f. 111v: Lupus. f. 112r: Laris; Corona meridionalis. f. 112v: Piscis meridionalis.

(For Aquarius, see Saxl, I, pl. II. 3; Fluvius, I, pl. IX. 20).

foll. 113r-121v: ALMANACH PLANETARUM.

f. 113r: Saturn.

f. 121v: Luna.

f. 122r: TABULA MANSIONUM LUNE.

f. 122r: Tabula mansionum lune facta ad gradum zodiaci primi mobilis anno salutis 1466 MCCCCLXVI.

f. 122v: JOHANNES LONDINIENSIS. TABULA STELLARUM FIXARUM (see E. Poulle, "Peut-on dater les astrolabes médiévaux?", *Rev. d'histoire des sciences*, IX, 1956, p. 314) Heading: De stellis 41 octave sperae. Incipit: Tabula 41 stellarum fixarum verificata parisiis per instrumentum armillarum. Et est longitudo earum arcus orbis signorum interceptus inter circulum magnum transeuntem per polos orbis signorum et per principium arietis et circulum transeuntem per eosdem polos et stellam. Latitudo vero earum est distantia ab orbe signorum et est arcus eiusvis circuli transeuntis per polos cuiusvis orbis interceptus. Table of 40 stars, one star being repeated twice. Longitude and latitude and size of each star. Arabic and Latin star names, thus: Aldebaran 1. Oculus vel cor Tauri: 28° 0'; 5° 12'; Meri.; 1.

f. 123r: TABULAE TOLETANAE (see Poulle, *art. cit.*, p. 310). Loca stellarum 35 fixarum secundum longitudes earum et distantiam ab equinoctionali et cum quo gradu celum medientur . . . explicit tabula locorum stellarum fixarum et distantie ab equinoctionali et graduum cum quibus mediant celum. Et sunt numero XXXV. Poulle states that the table in Paris B.N. lat. 16211, f. 93 bears the date "anno arabici 577 verificata" which is A.D. 1181-2. Two sets of co-ordinates. Latitudes usually Ptolemaic,

longitude differences from Ptolemaic not constant, most frequent being $15^{\circ} 7'$ and $14^{\circ} 55'$, after allowances made for scribal errors. Arabic star names, thus: Aldebaran: $27^{\circ} 47'$; $5^{\circ} 10'$; Mer.; $14^{\circ} 41'$; Sept.; $56^{\circ} 24'$.

f. 123v: SCHEMA of months and zodiac signs.

f. 124r: SCHEMA of Houses of Planets, Zodiacs, Temperaments and climates.

f. 124v: Blank.

foll. 125r-130v: TABULA ARCUS DIEI AC NOCTIS.

f. 125r: Incipit Tabula arcus diei et noctis totius anni. Table for March follows.

f. 130v: Table for February. Explicit vera tabula horarum secundum unumquemque mensem incipiendo a marcio et faciendo finem ad februarium deo gracias amen.

foll. 131r-132r: ALBERTUS MAGNUS (?) DE CAUSIS SOMPNIORUM.

f. 131r: Red: Incipit foeliciter tractatus Domini Alberti Magni de causis sompniorum. In sompniis ymagina praeeparat. . .

f. 132r: significationem futuri.

foll. 132r-133r: THEBIT BEN CORAT. DE QUANTITATIBUS STELLARUM. (ed. F. J. Carmody, *The Astronomical Works of Thabit ben Qurra*, Berkeley, Calif., 1960, pp. 145-8).

f. 132r: Red: incipit Thebith de quantitatibus stellarum. Ptolemeus et alii sapientes. . .

f. 133r: quia quiddam modicum remansit.

foll. 133r-133v: NOTA QUOD ORIENTALES.

f. 133r: Nota quod orientales sunt antipodes. . .

f. 133v: inveniret in torridam zonam.

foll. 133v-135r: DE MAGNITUDE CORPORUM CELESTIUM.

f. 133v: De magnitudine corporum celestium secundum Campanum in sua theorica in capitulo de equatoribus singulorum planetarum per miliaria scilicet quod miliare unum constat ex 4000 cubitis semidiameter corporis lunae 948 13.

f. 135r: Ibidem vero secundum Ptholomeum 29 12 44 3 0 0 00.

fol. 135r-140r: Notes in hand of fol. 76r-86r and of 16th century added to the MS. on longitude of towns, on colours of eclipse, on towns under signs of zodiac and powers of planets as well as diagrams. A hand has added on f. 138v: *introitus solis in ariete diebus equatis 1478 in principio anni secundum computationem Magistri Georgii de Russia ad meridianum Bononensis (?) ab occasu.*

BOLOGNA

BIBLIOTECA COMUNALE, A. 173

Second half of XV. Italian humanistic cursive. Paper. 44 foll. 208 x 149. 26 long lines. Board binding. Inside back binding, a 19th century hand wrote: *Medicina ff. cxxxiii. Sch. th. 222.*

Mazzatinti, XXX, pp. 81-2.

fol. 1r-32r: BASINIUS PARMENSIS. ASTRONOMICON.

f. 1r: Brown capitals: *Basinii Parme/nsis Astronom/icon liber primus. Smaller capitals, alternately brown/black: Ethereos o/rbis subiect/a que marmo/ra caeli. . .*

f. 32r: *Templa cano atque vias semper volventis olympi. /Τελοος των/ αστρονομι/κων.*

PEN DRAWINGS:

f. 5v: *Draco inter arctos.* f. 6r: *Arctophilax.* f. 6v: *Corona.* f. 7r: *Hercules.* f. 7v: *Lyra.* f. 8r: *Perseus.* f. 8v: *Auriga.* f. 9v: *Anguitenens.* f. 10r: *Sagitta.* f. 10v: *Aquila.* f. 11r: *Delphinus.* f. 11v: *Equus.* f. 12r: *Cetus.* f. 12v: *Eridanus.* f. 13r: *Lepus.* f. 13v: *Orion.* f. 14r: *Canis;* *Procyon.* f. 14v: *Argo.* f. 15r: *Centaurus.* f. 15v: *Ara.* f. 16r: *Hydra,* *corvus* and *crater.* f. 16v: *Piscis austrinus.* f. 17r: *Aries* and *Deltoton.* f. 17v: *Taurus.* f. 18r: *Gemini.* f. 18v: *Cancer.* f. 19r: *Leo.* f. 19v: *Virgo.* f. 20r: *Scorpio* and *Libra* f. 20v: *Sagittarius.* f. 21r: *Capricornus.* f. 21v: *Aquarius.* f. 22v: *Pisces.* (*Cygnus, Cepheus, Cassiopeia, Andromeda* and lines 254-297 missing after fol. 7).

(For *Perseus* (with armour, curved sword), see Saxl II, fig. 21; *Eridanus* (no horns), I, pl. III. 6).

fol. 32v-37r: BASINIUS PARMENSIS. EPISTOLA AD SIGISMUNDUM PANDULPHUM MALATESTAM (*Trium Poetarum elegantissimorum Porcelii Basinii et Trebani opuscula*, Paris, 1539, pp. 87-91).

f. 32v: *Basinii Parmensis epistola ad Sigismundum Pandulphum Malatestam. De bello/suscipiendo pro salute et protectione Italiae./ Capitals: (L)iquerat oceanum. . .*

f. 37r: explevit funere poenas. 9 lines blank? for title of following letter.

foll. 37r-39r: BASINIUS PARMENSIS. AD SIGISMUNDUM DE LINGUAE GRAECAE LAUDIBUS ET NECESSITATE (Published in *Anecdota litteraria ex MSS. codicibus eruta*, II, Rome, 1733, pp. 405-16; also Rimini edition II, 1794, p. 31).

f. 37r: (Q)uis ferat indocti temeraria. . .

f. 39r: et fluviis magni defluxit homeri. Finis dies XVIII martii 1467.

foll. 39v-42: BASINIUS PARMENSIS. AD ROBERTUM ARIMINENSEM (published in *Anecdota litteraria*, II, pp. 300-312; also Rimini edition, II, 1794, p. 31).

f. 39v: Basinii Parmensis/Roberto Arimine/nsi Sal. Pl. dixit/ Gratissimae mihi tuae fuerunt litterae. . .

f. 42v: scire percupio. Vale iterum. A Rimini die/octobris vigesimo septimo.

CATANIA

BIBLIOTECA UNIVERSITARIA, 87 (ext. 87 int. 85)

XV. Littera bastarda. Paper. 333 foll. (5 and 6 blank). 310 x 215. Many hands. Ex dono Caietani Gustari Curcio (according to catalogue; on which much of the following description is based).

M. Fava, "Codices Latini Catinenses", *Studi italiani di filologia classica* V, 1897, pp. 432-35; A. Hauber, "Zur Verbreitung des Astronomen Sufi", *Islam*, VIII, 1918, pp. 50-51.

foll. 1v-4v: SUMMARIUM ASTROLOGIAE.

f. 1v: Gloriosus et benedictus Deus conditor omnium que. . .

f. 4v: erunt egritudines ventose ut sunt colica tinnitus aurium. (Alia capitula non videbantur scribenda quia dumtaxat sunt de Novilunio et flebothomia et de farmacys recipiendis et de crisis etc.)

foll. 7r-19v: PTOLOMAEUS. SYNTAXIS (Latin translation made in Sicily in the twelfth century entitled *Liber de locis stellarum fixarum*).

f. 7r: Nota Ursa minor quandoque dicitur arctos quandoque arc-turus. . .

f. 19v: et hec est forma sui aspectus in celo.

PEN DRAWINGS (identical with those in Vienna 5318, see Saxl II, pp. 20, 133-38, pls. VII. 14; VIII, both direct descendants of Paris Arsenal 1036):

f. 7r: *Draco inter arctos*. f. 7v: *Cheicnis*; *Corona*; *Thegnius*. f. 8r: *Perseus*; *Alor*. f. 8v: *Vultur volans*; *Pleiads*; *Cassiopeia*. f. 9r: *Hercules*; *Alayot* (Plate VIa). f. 9v: *Alfeitas*; *Alahange on Scorpio*. f. 10r: *Aquila*; *Delphin*. f. 10v: *Equus prior*; *Equus secundus*. f. 11r: *Andromeda*; *Andromeda and Pisces*. f. 11v: *Andromeda with fish*; *Equus minor*. f. 12r: *Triangulus*; *Aries*. f. 12v: *Taurus*. f. 13r: *Gemini*; *Cancer*. f. 13v: *Leo*; *Virgo*. f. 14r: *Libra*; *Scorpio*. f. 14v: *Sagittarius*; *Alcancarus*. f. 15r: *Hauritorisa*. f. 15v: *Pisces*. f. 16r: *Cetus*. f. 16v: *Orion*; *Fluvius*. f. 17r: *Canis*; *Anticanis*; *Lepus*. f. 17v: *Argo*. f. 18r: *Ydra*; *Crater*; *Corvus*. f. 18v: *Lupus*; *Centaurus*. f. 19r: *Sacrarium*; *Corona*. f. 19v: *Piscis magnus*.

(For *Cassiopeia*, see Saxl II, pl. VII. 14; *Hercules*, III, fig. 20; *Andromeda*, II, pl. VIII. 15).

foll. 21r-35r: *LIBER DE LOCIS STELLARUM FIXARUM* (GEBER's translation as in Vienna 5318, Saxl II, p. 133).

f. 21r: *Incipit liber de locis stellarum fixarum cum ymaginibus suis verificatus ab Ilber mosophim philosopho annis arabum 325. Forme et stelle. Stelle urse minoris...*

f. 35r: *ut patet per calculos ipsius Alphony.*

f. 36r: (*DE DIEBUS PERICULOSIS.*) *Hy sunt dies quos infelices et periculosos... igitur sunt valide probata.*

foll. 36v-37r: (*DE DOMIBUS PLANETARUM.*)

f. 36v: *Nota quod domus non potest esse minor 20 gradibus...*

f. 37r: *alia duo signa deficiencia sunt inclusa.*

foll. 38r-71v: *JOHANNES HISPALENSIS. PREF. ISAGOGUE IN ASTROLOGIAM* (see Vienna 2436, foll. 206r-28v).

f. 38r: *Incipit liber Johannis Hispalensis de quattuor partibus astronomiae. Zodiacus dividitur in 12 signa...*

f. 71v: *exit istis emptis (?)*

foll. 72r-88r: (*DE PLUVIA.*)

f. 72r: *Nota signa pluvie secundum magistrum Johannes de Eshende...*

f. 88r: *ideoque cogeatur ad hoc. amen.*

foll. 89r-101v: *PSEUDO-PTOLOMAEUS. DE IUDICIIS AD ARISTONEM* (T-K 1504, Carmody, p. 17).

f. 89r: Incipit Ptholomey liber. Signorum alia sunt masculini generis alia feminini...

f. 101v: usque ad finem geminorum dicuntur obediencia.

fol. 102r-138r: DE ASTRONOMIA (opening similar to that in J. Millás Vallicrosa, *Traducciones orientales en los manuscritos de la Biblioteca Catedral de Toledo*, Madrid, 1942, pp. 177-78, where John of Seville is mentioned as the author; also in Paris B.N. lat. 7267; T-K 3, 1044).

f. 102r: Incipit summa astronomie bona et utilis valde. A philosophis astronomiam sic diffinitam accipimus...

f. 138r: qualem habet dominus ascendentis.

fol. 139r-141v: (TABULA DE PLUVYS (?) T-K 1381).

f. 139r: Saturnus cum fuerit in ascendentis...

f. 141v: bonam condicionem ostendit. Explicit tabula de pluvys.

fol. 141v-143r: PETRUS DE MARICOURT. TRACTATUS DE MAGNETE. (T-K 794; E. Schlund, "Peregrinus, sein Leben u. seine Schriften", *Archivum Franciscanum Historicum*, 4, 1911, pp. 436-55, 633-43; 5, 1912, pp. 22-40).

f. 141v: Iste tractatus de magnete duas continet partes...

f. 143r: Et hec de adamante dicta sufficient.

fol. 144r-153v: JOHANNES DE LINERIIS. CANON PRIMI MOBILIS? (T-K 276).

f. 144r: Incipiunt canones Ioannis de Linerys. Cuiuslibet arcus propositi sinum rectum invenire...

f. 153v: erit ex parte septentrionis. Expliciunt canones primi mobilis tabularum Magistri Iohannis de Lynerys extracte ab Albetegni deo gratias.

fol. 154r-173r: JOHANNES DE LINERIIS. CANONES DE A. D. 1322 III (T-K 1127).

f. 154r: Incipiunt canones 2 mobilis tabularum Joannis de Lynerys. Priores astrologi motus corporum celestium...

f. 173r: quomodo fuit in radice et patebit propositum. Expliciunt canones tabularum reverendi Magistri Johannis de Lenerys in quibus quasi tocus astronomiae jocunditas exploratur satis compendiose extracti ab antiquis.

foll. 173r-175v: (REGULAE ASTRONOMICAE).

f. 173r: Nota tabula radicum 8ve spere...

f. 175r: erit arcus sinus propositi.

foll. 175v-184r: ALBERTUS MAGNUS. SPECULUM ASTRONOMIAE (ed. Borgnet, X, 1891, pp. 629-56).

f. 175v: Accusationem quorundam librorum apud (sic) quos non est radix...

f. 184r: quia ambe ab eodem inveniuntur causate. Explicit libellus fratris Alberti Magni de summa librorum tocius masse astronomie.

foll. 184v-187v: (JOHANNES HISPALENSIS?) DE COMPOSITIONE NOVI QUADRANTIS (secundum Messahallam, see Carmody, pp. 23-24; T-K 241).

f. 184v: Incipit compositio novi quadrantis. Compositurus novum quadrantem...

f. 187v: eque distent in altitudine.

foll. 187v-191v: PRACTICA NOVI QUADRANTIS (T-K 1627 gives this as *De utilitate quadrantis* of Johannes Eligerus de Gandersleben, but Carmody, p. 25 mentions a Vienna MS. 5337, foll. 120r-125r, where the text with the incipit as on f. 187v and explicit as on f. 191v is attributed to Bredon).

f. 187v: Incipit practica novi quadrantis. Utilitates novi quadrantis breviter colligere...

f. 191v: ostendit tibi putei profunditatem. Explicit practica novi quadrantis.

foll. 192r-201v: TABULE JOHANNIS DE LINERIIS.

foll. 202r-202v: (MODUS FACIENDI HOROLOGIIUM? Zinner 9774).

f. 202r: In nomine domini modus faciendi horologium...

f. 202v: erit vera altitudo poli.

f. 202v: LATITUDO 51 GRADUS.

foll. 203r-208r: JOHANNES SIMON DE ZELANDIA. SPECULUM PLANETARUM (T-K 753).

f. 203r: Instrumentum in quo velud in speculo...

f. 208r: Pars 5 minuta 15.

fol. 209r-210r: RATIO SEMI-DIAMETRUM HOROLOGII AEQUINOCTIALIS HORIZONTALIS ET MURALIS CONSTITUENDI (Vienna 5296, foll. 141r-142v).

f. 209r: Semi dyametrum horology equinoctialis, orizontalis et muralis constituere. Erigatur quarta pars circuli...

f. 210r: fratrem ordinis minorum.

fol. 211r-222v: ACCURSIUS DE PARMA/JOHANNES DE HARLEBEKE. ASTROLABIUM SPHAERICUM (see Saxl II, p. 152; *Isis*, XLVII, 1956, p. 393, with references to editions printed at Venice in 1518).

f. 211r: Composicio spere solide. Tocius astrologice speculationis radix...

f. 222v: sub laude dei vivi. Explicit composicio spere solide.

fol. 224r-253r: COMPOSICIO ASTROLABII (T-K 1294).

f. 224r: Composicio astrolabii. Quoniam practica astronomie absque instrumentis complete haberi non potest...

f. 253r: ad veram conceptionem 26 gradus 54 minuta "(accedunt exempla)".

fol. 253v-258r: DE ASPECTIBUS PLANETARUM.

f. 253v: De aspectibus planetarum. Trinus bonus quartus non nisi...

f. 258r: videamus naturam omnium signorum.

fol. 258v-261v: DE DECUBITU (T-K 309).

f. 258v: De decubitu. Cum infirmitas cuiusquam accidit quum luna est in ariete...

f. 261v: si fortuna aspexerit eam vivet lumini 7 morietur. explicit.

fol. 261v-264v: CAPITULUM.

f. 261v: Capitulum 12 domorum vel signorum. Quid significat esse...

f. 264v: et minues successionem.

fol. 265r-268v: COMENTUM SUPER TABULIS DE MORA NATI.

f. 265r: Comentum super tabulis de mora nati...

f. 268v: oppositorum eorum scilicet cancri et sagittarii.

foll. 269v-270v: (DE INTROITU SOLIS IN ARIETEM ANNO 1449.)

f. 269v: Anno domini 1449mo introitu solis in arietem incipiente...

f. 270v: erit ergo ascendens g. 4 33 20.

foll. 271r-273v: DE CONIUNCTIONIBUS PLANETARUM.

f. 271r: Item nota de coniunctionibus planetarum...

f. 273v: oritur gemini vel sagittarius.

foll. 274r-276r: JOHANNES DE GAMUNDIA. REGULA DE TABULIS PROPORTIONUM (T-K 48).

f. 274r: Ad intellegendas utilitates quas consequi possumus...

f. 276r: et hec de utilitatibus tabule tabularum sufficiant.

foll. 276v-280r: JOHANNES DE GAMUNDIA. ARS ARITHMETICA (T-K 1163).

f. 276v: Algorismus de minucijs. Quamvis ars numerandi in minucijs...

f. 280r: illa radix velet etc.

foll. 281r-291r: SACROBOSCO. SPHAERA.

f. 281r: Tractatum de spera in 4 or capitula distinguimus...

f. 291r: aut mundana machina dissolvetur. Explicit spera.

foll. 291v-292v: (DE MENSURA TERRAE.)

f. 291v: Nota quatuor grana tritici faciunt digitum...

f. 292v: sicut potest videri in spera.

foll. 293r-299v: THEORICA PLANETARUM (GERARDI, ed. F. J. Carmody, Berkeley, Calif., 1942).

f. 293r: Tractatus Theorica Planetarum. Circulus ecentricus dicitur...

f. 299v: coniuncti lumine et non corporaliter. explicit theorica planetarum.

foll. 300r-302v: (MODUS FABRICANDI EQUATORIUM, T-K 352).

f. 300r: Tractatus de equatoriis. Cum visus (sic) fuerit tibi formare equatorium...

f. 302v: semper debet capi exclusive.

foll. 303r-303v: (DE COMPOSITIONE ALMANACHI).

f. 303r: Ad almanach componendum...

f. 303v: Ad meridiem sequentem diei.

foll. 304r-305v: (IDEM; T-K 1050).

f. 304r: Aliud (sic) tractatus ad idem. Planetarum vero speculum...

f. 305v: redit ad primum annum.

foll. 306r-307r: TABULA LONGITUDINUM ET LATITUDINUM CIVITATUM
VEL REGIONUM.

foll. 307v-308v: LOCA STELLARUM FIXARUM subscripta verificata anno
domini 1465 completo. Et recepta ex spera solida.

foll. 309r-315r: FIGURAE ASTRONOMICAE.

foll. 316r-318r: (DE CONIUNCTIONIBUS PLANETARUM.)

f. 316r: Considerandum primum in omni coniunctione...

f. 318r: luna est dominus anni.

foll. 319r-326r: DE MOTU PLANETARUM (T-K 275).

f. 319r: Cuilibet planete assignatur triplex locus...

f. 326r: ab eodem puncto cum successione signorum.

foll. 327r-328v: LEOPOLDUS AUSTRIAE. DE ASTROLOGIA SCIENTIA CAP. VI
DE MUTATIONE AERIS (T-K 999).

f. 327r: Omnis mutacio aeris aut est ex natura signorum...

f. 328v: ille erit almutan.

foll. 329v-333v: (DE FIGURIS ZODIACI ET EARUM VIRTUTIBUS; ? T-K
557, 1505)

f. 329v: Figura arietis sua forma est recta...

f. 333v: et hec zael philosophus.

CAVA

ARCHIVIO DELLA BADIA, 3

XI. Cava. Described in L. Mattei-Cerasoli, *Codices Cavenses*, Cava, 1935, pp. 12-22 for which see further bibliography, particularly for references to *Codex Diplomaticus Cavensis*, 8 vols., Naples, 1873-1892. This florilegium will be the subject of a study by Dom Paul Meyvaert.

The florilegium includes, among its schemata, the two following:

f. 202v: Rota with representations of Sun and Moon in centre with twelve winds in circle (*Codex Dipl. Cav.*, V, 1878, table IV).

f. 203r: Abraham and his disciples being taught astronomy (*op. cit.*, table V).

CESENA

BIBLIOTECA MALATESTIANA, PLUT. XII (S) VI

XIV-XV. Italian. Parchment. ii+34 foll. 269 x 220. 14th century section on foll. 1-10v in 2 columns of 35 lines, remainder of MS. (15th century) in 35-42 long lines (foll. 11r-24r: 38 lines; foll. 24v-29r: 39-42 lines; foll. 33r-34r: 35 lines). Leather binding. Provenance: "Giovanni Marco da Rimini come si rileva dalla sua disposizione testamentaria in favore del Convento di S. Francesco di Cesena".

J. M. Muccioli, *Catalogus codicum manuscriptorum Malat. Caesanatis Bibliothecae*, 2, Cesena, 1784, pp. 68-72; R. Zazzeri, *Sui codici e libri della Bibl. Malatestiana*, Cesena, 1887, pp. 355-59.

f. 1r: NOTITIA DE MACROBIO. Macrobius ormicretes hoc est sompniolum... fuit inscribendo hoc libello.

ILLUSTRATIONS (identical with those in Oxford, Can. Class. Lat. 257 (s.c. 18838), see Saxl III, pp. 328-29, pl. XIII. 34): f. 1r: Schema of spheres of earth, elements, planets, stars and primum mobile. Masinissa talking to Scipio; Masinissa praying to spheres. f. 1v: Dream of Scipio.

foll. 2r-4v: CICERO. DE REPUBLICA VI.

f. 2r: Red: Sompniolum Scipionis Publii Africani iunioris excerptum ex VI^o libro de republica Marci Tullii Ciceronis super quod Ambrosius Macrobius fuit commentatus. Text: Cum venissem in Affricam...

f. 4v: ille discessit, ego somnio solutus sum.

foll. 5r-10v: AUSONIUS? INCERTI PERIOCHAE HOMERI ILIADIS ET ODYSSEAE (ed. Peiper, pp. 377-405).

f. 5r: Red: Liber Francisci Petrarce Laureati./Si homerum scriptorem troici belli... dedit discrimina Achivis.

f. 5v: Crises apollinis sacerdos...

f. 10v: rerum gestarum oblivione componit. (End of 14th century hand).

fol. 11r-12r: COLUCIO SALUTATI. (Kristeller, *Iter Italicum*, I, pp. 83, 377).

f. 11r: Declamatio Collucii puerii Cancellarii Florentini/ Lucretia Spurii Lucrecii filia et...

f. 12r: licitam fore vitam.

fol. 12v-16v: DECLAMATIO AVOGARII DE ORGLANO VICENTINO (transcribed and published in Muccioli, *op. cit.*, pp. 241-48; also found in Milan Ambros. B. 116 sup. f. 109, according to Sabbadini, *Giornale storico della letteratura italiana*, L, 1907, p. 39n.).

f. 12v: Declamatio Avogarii de Orglano Vicentino./Lese maies-tatis fit actio./Argumentum. Conspirationem adversus... paritur et edixit./Contradicit supplex Verona/ Miserandas preces meas Magnanime Ugo patienter...

f. 14r: vindicta ceteris utile sit exemplum.

f. 14v: Urbis Rome ad Veronensam consolationem. Introductio /Avogarii de Orglano Vicentino/Roma loquitur ad Veronam/ Universo quamvis terrarum...

f. 16v: utere iure tuo.

fol. 17r-19r: EPISTOLA AD CORRADUM DE CARRETO.

f. 17r: Ad spectabilem generosumque militem D. Corradum de Carreto... Comitis Cancellarii lugubris epistola./Infelicissimum amarissimumque michi casum...

f. 19r: appellatione Judicium. Data Alexandrie XX Julii MCCCC° VI.

fol. 19v-23v: PLEA TO EMPEROR AGAINST ROMAN PONTIFF.

f. 19v: Serenissime atque mitissime princeps. Decet regiam magnitudinem...

f. 23v: felicibus incrementis. Florentia V Novembris.

fol. 24r-25r: CICERO. DE OPTIMO GENERE ORATORUM.

f. 24v: Oratorum genera esse dicuntur tamquam...

f. 25r: latine dicentem audiamus.

fol. 25v-29r: CICERO. ACADEMICORUM AD M. VARRONEM I.

f. 25v: In Cumano nuper cum Mercurii...

f. 29r: quadam fuit facultate.

fol. 29v, 30-32: Blank.

foll. 33r-34v: CARMINA DE DESTRUCTIONE TROIE (written in second 15th century hand).

f. 33r: Pergama flere volo fato Danaum data solo/ solo capto dolo capta redacta solo (first two lines only of poem *Carmina Burana*, ed. A. Hilke-O. Schumann, I, 2, Heidelberg, 1941, no. 101; PL 142, 1205).

foll. 33r-34v: Viribus arte minis Danaum data Troja ruinis... Sic gens Romulea surgit ab Hectorea (PL 171, 1451; for discussion and bibliography see A. Boutemy, "Le poème *Pergama Flere Volo* et ses imitateurs du XIIIe siècle", *Latomus*, V, 1946, pp. 233-44).

CORTONA

LIBRERIA DEL COMUNE E DELL'ACCADEMIA ETRUSCA, 184 (265)

End of XV. Humanistic cursive by 3 scribes. Paper. 205 foll. (of which, in Part II, foll. 77v, 78, 79, 83v, 87v, 88v, 91v, 92v, 93, 95, 97, 101, 102v, 105v, 106v, 107, 109, 111, are blank). 214 x 145. 28 long lines. Three sections of MS. as well as being written by different scribes are separated by different quires. 19th century leather and board binding. Catalogue says MS. belonged to S. Francesco di Cortona (*teste* stamp at bottom of f. 3r).

G. Mancini, *I manoscritti della libreria del comune e dell' accademia etrusca di Cortona*, Cortona, 1884, no. 265, p. 89.

foll. 3r-67v: HYGINUS. ASTRONOMICA I-IV.

f. 3r: Higinus Marco Fabio plurimam salutem. (E)t si studio grammaticae artis...

f. 67v: sol ab aestivo circulo redit/Τελος.

PEN DRAWINGS WITH PENCIL SHADING TO BOOK III:

f. 38v: Draco inter arctos. f. 39r: Arctophilax. f. 39v: Corona. f. 40r: Engonasin. f. 40v: Lyra; Olor. f. 41r: Cepheus. f. 41v: Cassiopeia. f. 42r: Andromeda. f. 43r: Perseus. f. 43v: Eniochus. f. 44r: Ophiochus. f. 44v: Sagitta; Aquila. f. 45r: Delphinus. f. 45v: Equus; Deltoton. f. 46r: Aries. f. 46v: Taurus. f. 47r: Gemini. f. 47v: Cancer; Leo. f. 48r: Virgo. f. 48v: Scorpio. f. 49r: Sagittarius. f. 49v: Capricornus. f. 50r: Aquarius. f. 50v: Pisces. f. 51r: Pistrix. f. 51v: Eridanus; Lepus. f. 52r: Orion. f. 52v: Canis. f. 53r: Prochion. f. 53v: Argo. f. 54r: Centaurus; Ara. f. 54v: Hydra, corvus and crater. f. 55r: Piscis nothius. foll. 68-70: Blank. (For Eridanus, see Saxl I, pl. IX. 20)

fol. 71r-110v: GLOSSARIUM.

f. 71r: Antesignanus qui fert signa...

f. 110v: in graeco mari nomen invaserat Acro. (Words for R and S are missing.)

f. 111: Blank.

fol. 112r-205v: MODEL LETTERS, PETITIONS AND RHETORICAL EXERCISES.

f. 112r: Exemplum in genere dubio...

f. 205v: cum dicimus id quod tamen videmur.

FLORENCE

BIBLIOTECA LAURENZIANA, CONV. SOPPR. 174

At turn of XIV-XV. Italian. Parchment. i+88 foll. 372 x 245. 2 columns of 50 lines. Modern leather and board binding. 19th century hand on f. 1r: Conv. Soppr. 174. 2586. 15th century hand on f. 1r: Iste liber est congregationis Sancte Iustine ordinis Sancti Benedicti depuratus (?) monasterie Sancte Marie sive Abbatis Florentiae. c(?) 67. Further notes on f. 1r: Liber iste pertinet ad monasterium Sancte Marie (rest of line erased); and on f. 2r: Iste liber est monasterii Sancte Marie de Sancto (?) Sepulcro extra et prope Florentiam.

f. 1v: PETRUS DE DACIA. TABULA. Column 1: In ista parva tabula sunt/ quatuor circuli cicli sive/linee ad sciendum que littera est primacionum lune et hoc per annos domini. Dates arranged in 4 columns of 5 lines each from 1292 to 1653 (see Milan N. 55 sup., f. 1r, and T-K 685).

f. 1v: PETRUS DE DACIA (?). CANON SUPER KALENDARIUM. Column 2: Red: Incipit canon super kalendarium./Quere inter numeros in superiori parte istius tabule positos... Column 3: in media nocte precedente. Tables from 1340-60. (See Milan N. 55 sup., f. 1v.)

fol. 2r-7v: Calendar. f. 2r: January. Above it: In ebreo thebeth. In greco ezducios, in latino ianuarius.

f. 7v: December.

f. 8r: TABULA. Days of month, months and zodiac signs.

f. 8v: Blank.

fol. 9r-83r: PROFATIUS JUDAEUS. ALMANACH (mostly as published in J. Boffito-C. Melzi d'Eril, *Almanach Dantii Aligheri*, Florence, 1908).

f. 9r: (PROEMIUM, first published by M. Steinschneider, "Prophatii Judaei Montispessulani Massiliensis, Proemium in Almanach",

Bullettino di Bibliografia e di Storia delle Scienze Matematiche e Fisiche, IX, 1876, pp. 19-21; T-K 1226.) Column a: Quia omnes homines naturaliter scire desiderant et maxime res occultas . . . in operatione autem facilem atque brevem et hoc incipio facere cum auxilio dei benedicti amen.

foll. 9r-11v: (CANONES SUPER ALMANACH as in Boffito-Melzi d'Eril, pp. 2-9). Ad noticiam autem canonum et operationem tabularum sequencium . . . a principio eclipsis usque ad finem eius. Addition in same hand: Completis duabus revolucionibus et tercię revolutionis . . . in illa die contra intrabit. Further addition in later hand: Scias quod locum capitis draconis . . . arcus tabula diversitatis.

foll. 12r-43r: (TABULAE PLANETARUM, as in Boffito-Melzi d'Eril, where later tables are also found.) Incipiunt Tabule Almanach 1 ad equacionis Prophacii Iudei facte in Monte Pessulano. Prima tabula saturni (from 1300-59) . . . Last table of Sol on f. 43r.

f. 43v: (CANON.) Quando volueris scire loca trium planetarum superiorum . . . semper invenies verum locum solis.

foll. 44r-75v: (TABULAE LUNE.)

f. 44r: Medius cursus lune in annis collectis.

foll. 44v-45r: Medius cursus lune ad menses et dies.

foll. 45v-69r: Argumentum lune ad equatum.

foll. 70r-75v: Equacio lune.

foll. 76r-77r: (TABULAE CAPITIS DRACONIS.)

f. 76r: Medius motus capitis draconis in annis collectis.

foll. 76v-77r: Tabula motus capitis draconis ad menses et dies.

f. 77v: (CANONES.) Quando volueris scire tempus coniunctionis solis et lune . . . verum locum capitis draconis.

foll. 78r-v: Tabula divisionis longitudinis.

f. 79r: Tabula latitudinis lune; Tabula eclipsis in medietatem longitudinis.

f. 79v: Tabula cursus lune et equacio eclipsium lunarium; Tabula veri loci solis et cursus eius in una hora ac hore medietatis die ad latitudinem montis que est 43 gradium.

f. 80r: Tabula quantitatum dyametrorum solis et lune.

foll. 80v-81r: Tabula diversitatis aspectus in longitudine et latitudine orizontis Montis Pessulani cuius latitudo est 43 gradium.

fol. 81v-82r: Elevacio signorum et equacio dierum cum noctibus suis.

fol. 82v-83r: Tabula proporcionis. At foot of f. 83r: expliciunt tabule almanach id est ad equacionis planetarum et capitis et caude draconis compilate per Profacium Iudeum de Monte Pessulano ad meridiem illius diei de quibus gratias deo patri filio et spiritui sancto gloriosissime vergini totique consorcio angelorum prolixè et intricate; unde opus valde redditur tediosum completum Veneciis (?) hora vespera (one line erased).

COLOURED ILLUSTRATIONS AT FOOT OF PAGE:

f. 12r: Saturn. f. 17r: Jupiter. f. 24r: Mars. f. 30v: Venus. f. 31v: Mercury. f. 39v: Sol. f. 44r: Luna.

(For Mercury, see Saxl III, pl. LXXVIII. 200; Sol, III, pl. LXXVIII. 201)

f. 83v: Tabula longitudinis civitatum ab occidente et latitudinis earum ab equatore diei (83 in all, from "Tangea" to "Atene", the longitudes for Messina, Venice, Perugia, Gubbio being omitted, and data for Florence being left out: some examples Tangea 6° 30', 35° 15', Ancona 36° 30', 43° 1', Tholosa 40° 45', 44° 6').

fol. 84r-88v: DE HIIS QUE PERTINENT AD ASTROLOGIE PRACTICAM. TERTIA PARS.

f. 84r: Postquam ostendimus disposicionem mundi et orbium celestium et motum. Nunc in tercia parte dicemus de hiis que pertinent ad astrologie practicam...

f. 88v: status celi iste et tunc (apparent imperfect ending).

BIBLIOTECA LAURENZIANA, MEDIC. PALAT. 89

End of XV. Humanistic cursive. Paper. ii + 17 foll. 285 × 220. 24 long lines. Brown leather binding. Medici arms on f. 1r. On f. iiv a 17th century hand wrote: del Senatore Mateo Botti.

A. M. Bandinius, *Bibliotheca Leopoldina Laurentiana seu catalogus manuscriptorum*, III, Florence, 1793, p. 260.

fol. 1r-17r: DATI. SFERA.

f. 1r: Al Padre, al Figlio allo Spirito Santo ...

f. 17r: L'Asia maggiore, al fiume Tanai.

COLOURED WASH ILLUSTRATIONS INCLUDE:

f. 3r: Saturn; Jupiter; Mars (Plate XII b). f. 4r: Sol. f. 4v: Venus; Mercury. f. 5r: Luna.

BIBLIOTECA LAURENZIANA, MEDIC. PALAT. 90

End of XV. Humanistic cursive. Paper. 33 foll. 285 x 210. 26 lines for verses.

A. M. Bandinius, *op. cit.*, III, pp. 260-63.

foll. 1r-20v: DATI. SFERA.

f. 1r: Al padre al figliuolo allo Spirito Sancto . . .

f. 20v: L'Asia maggiore al fiume Tanai.

WATERCOLOURS (identical with those in Lucca 1343):

f. 3r: Busts of Saturn, Jupiter and Mars. f. 4v: Busts of Venus and Mercury.

foll. 21r-33r: NOVELLE I-IV.

f. 21r: Tancredi principe di Salerno occide l'amante della figliuola . . . (*Decameron* IV. 1).

f. 24r: Antiocho figliuolo di Sileuco re de Syri innamorato della Matrigna chiamata Stratonicha . . . (composta per Messer Lionardo da Arezzo a Firenze).

f. 26v: Una coppia di legiadri amanti si fugono delle loro proprie chase . . .

f. 30r: Uno giovane ama la moglie d'uno oste travestesi in donna vedova . . .

BIBLIOTECA LAURENZIANA, PLUT. 29. 30

XII. Parchement. 42 foll. 213 × 170. 31-33 long lines. Red leather binding, strengthened with metal on covers, and with a chain.

A. M. Bandinius, *Catalogus latinorum Bibliothecae Mediceae Laurentianae*, II, Florence, 1775, pp. 46-7.

f. 1r: Two sets of verses on the stars:

1. Ad Boree partes Arcti vertuntur et Anguis . . . Hinc sequitur Pistrix simul Eridanique fluentia. (Baehrens, V, p. 351).

2. Exoriens chelas aries demergit in ima . . . Virgo fugat Pisces redit et victoria victis. (Baehrens, V, p. 350).

foll. 1v-35r: HYGINUS. ASTRONOMICA I-IV. ix:

f. 1v: Hyginus de signis celestibus quem scribit ad M. Fabium, written in 15th century hand. Text opens: Hyginus M. Fabio plurimam salutem. Et si te studio grammaticae artis. .

f. 35r: ends imperfectly iv. ix: ad eum locum ubi occidere dicatur ibi montium magnitudine.

PEN DRAWINGS, ILLUSTRATING BOOK II WITH NO STARS INDICATED (very close to St. Paul in Lavantthal XXV. 4. 20):

f. 5r: Arctos maxima. f. 5v: Arctus minor. f. 6r: Serpens inter arctos. f. 6v: Artophilax (Plate Ic). f. 8r: Corona. f. 9r: Engonasin. f. 9v: Lyra. f. 10v: Olor; Cepheus. f. 11r: Cassiopeia; Andromeda; Perseus. f. 11v: Eniochus. f. 13r: Serpentarius. f. 15r: Aquila. f. 15v: Delphin. f. 16r: Equus. f. 16v: Deltoton. f. 17r: Aries. f. 18r: Taurus (with man riding him). f. 18v: Gemini. f. 19r: Cancer. f. 19v: Leo. f. 20r: Virgo. f. 20v: Scorpius. f. 21r: Sagittarius. f. 21v: Capricornus; Aquarius. f. 22r: Pisces; Cetus; Eridanus. f. 22v: Lepus. f. 23r: Orion. f. 23v: Canis; Prochion; Argo. f. 24r: Centaurus. f. 24v: Ara; Ydra, corvus and crater. f. 25r: Piscis.

(Similar in some respects to Monza, p. 59; for Sagittarius (as satyr), see Saxl I, pl. XXI. 45; Orion, I, pl. VIII. 16).

foll. 36r-42v: DIAGRAMS AND NOTES.

f. 36r: Circles of apsides of planets.

f. 36v: Rota of months and zodiac signs.

f. 37r: Rota of zodiac signs and planets.

f. 37v: Rota of time.

f. 38v: Houses of planets.

f. 39v: Computistical circles.

foll. 40v-42r: Various medical notes on fevers, headache, snake bite, tempests, lunatics.

f. 42v: Ad Boree partes Arcti . . . simul Eridani fluenta. (Baehrens, V, p. 351).

BIBLIOTECA LAURENZIANA, PLUT. 40. 7

First half of XV. Littera bastarda. Paper. 239 foll. 385 x 290. Varying number of lines. Brown leather binding strengthened by metal at the corners. Bandini, *op. cit.*, V, 1778, p. 22.

foll. 1r-239v: DANTE. DIVINA COMMEDIA.

f. 1r: Red: Incomincia il primo canto della prima cantica della Comedia di Dante Allighieri da Firenze la quale è decta Inferno. Nella quale si tracta delli peccatori dampnati in essa et delle lor pene distinguendo ordinatamente li luoghi et le pene delli peccatori secundo le colpe per loro commesse. Prohemio . . . 1. Brown: Nel mezzo del cammin di nostra vita . . .

f. 239v: L'amor che move il sole e l'altre stelle. Red: explicit liber tertius et ultimus Dantis Allegherii de Florentia deo gratias amen.

ILLUSTRATIONS INCLUDE:

f. 169v: Mercury and opening of battle. f. 174v: Venus and occupations under Leo. f. 179v: Sol. f. 202r: Jupiter. f. 204v: Jupiter. f. 207r: Saturn. f. 209v: Saturn and Leo.

BIBLIOTECA LAURENZIANA, PLUT. 40. 53

Second half of XV. Humanistic: Florentine. Parchment. 303 foll. 390 x 270. 36 long lines, sometimes, in the case of the commentary, in 2 columns. Red leather binding, stiffened with metal. The date, 2 June, 1473, on f. 301v refers to the completion of the commentary. Note at end says; Opus Matthaei Palmerii quod sigillatum Notariorum Arti Florentiae, conditione apposita ut non aperiatur dum in suo religatus corpusculo vivet ipse Matthaueus.

Bandini, *op. cit.*, V, 1778, pp. 74-96; *Libro del Poema chiamato Città di Vita composto da Matteo Palmieri Fiorentino*, transcribed and with a preface by Margaret Rooke (*Smith College Studies in Modern Languages*) Northampton Mass., 1927, 2 pts.

foll. 3r-30v: MATTHAEUS PALMERIUS. CITTÀ DI VITA, together with EXPOSITIO IN LIBROS CIVITATIS VITE OF LEONARDUS DATUS.

f. 3r: Capitals: Cominciano e capitoli del poema chiamato ... Capitolo primo nel quale si contiene come sybilla promette...

f. 4v: et ultimo della vita beata. f. 5: Blank.

f. 6r: EPISTOLAE LEONARDI DATI AD M. PALMERIUM (Rooke, *op. cit.* p. xxi). Epistola I ad M. Palmerium. Nunc cum iam advesperascet... Vale ex plebe sancti Iohannis maioris agri mugellani XII kalendas septembris salutis anno MCCCCLXIII. Epistola II. Doleo cum ex agro mugellano vocasti... vale ex palatio apostolico romae apud sanctum Petrum tertio nonas januarii MCCCCLXIII.

foll. 6v-9r: Incipit prefatio expositionem Leonardi Dati canonici florentini in libros civitatis vite Matthei Palmieri florentini. Magno ingenio viri ... f. 9r: et verba tantum monstrare.

foll. 11r-301v: Text starts with exposition arranged in double columns. Comincio el primo libro del poema chiamata Città di Vita composto da Matthaei Palmieri florentino. Se mi vien grazia... Commentary opens: Incipiunt expositiones leonardi Dathi canonici florentini in primum librum civitatis vitae Matthei Palmerii florentini lege feliciter. Se mi vien grazia...

f. 301r: Poem ends: dove e felice l'anima christiana.

f. 301v: Commentary ends: et laus sit omnipotenti deo in aeternum. Expliciunt expositiones Leonardi Dathi canonici florentini in libros civitatis vitae Matthei Palmerii florentini. Leonardus Dathus, postquam hoc opus commentavit, secretarius fuit apostolicus et Massanus episcopus. Anno salutis humanae MCCCCLXXIII et 11 Junii hoc celeberrimum opus consummatum est. Die autem mercurii hora vero XV^o laus honor imperium et gloria sit Omnipotenti Jhesu Christo per infinita seculorum secula amen. Omnium rerum vicissitudo est.

COLOURED ILLUSTRATIONS:

f. 9v: Schema of Universe. f. 10r: Schema of crater of vices or hell. f. 10v: Schema of tower of virtues or heaven. Remaining illustrate Commentary to Book I viii: f. 41v: Heavenly sphere (Plate VIII d). f. 42r: Draco inter arctos. f. 42v: Hercules; Ophycus; Boethes (Plate IVc). f. 43r: Virgo; Gemini; Pistrix; Eridanus. f. 43v: Cancer; Leo; Henyocus. f. 44r: Taurus; Cepheus; Causepya. f. 44v: Equus; Perseus; Andromeda; Aries and Deltoton; Aquarius; Pisces; Lyra; Olor; Capricornus. f. 45r: Sagitta; Aquila; Delphynus; Orion; Canis. f. 45v: Lepus; Prochyon; Navis; Ara; Sagittarius; Centaurus; Libra; Scorpio. f. 46r: Hydra, corvus and crater. (For Eridanus, see Saxl I, pl. III. 6).

BIBLIOTECA LAURENZIANA, PLUT. 89 SUP. 43

Second half of XV. Humanistic. Parchment. ii + 171 foll. (2 foll. 37). 255 x 180. 24 long lines. Hyginus on f. 72 and on f. 127r begins with a new quire. Leather binding. Produced for the Guardaroba Medicea (Medici arms on f. 3r).

Bandini, III, *op. cit.*, 1776, pp. 310-11; Saxl I, pp. XIV, XVI f., 4; II, p. 8; III, p. LIII f.; C. Leonardi, "I codici di Marziano Capella", *Aevum*, 34, 1960, pp. 45-46 (with bibliography).

foll. 1-2r: Blank.

f. 2v: Capitals in alternate lines of gold and blue enclosed within a wreath: In isto codice continetur liber arati et iginii de imaginibus.

foll. 3r-4r: ARATUS. GENUS (Maass, pp. 146-50).

f. 3r: Gold capitals: Incipit liber arati de signis celestibus. Text opens with decorated initial: Aratus quidem fuit Athinodori patris...

f. 4r: peritiae mathematicae repperimus autem illum et super.

foll. 4r-6r: EXCERPTS FROM THE SCHOLIA SANGERMANENSIA TO THE GERMANICUS CAESARIS ARATEA (Breysig, pp. 105-9).

f. 4r: Celum circulis quinque distinguitur...

f. 6r: connexio vero piscium comunem habet stellam.

ILLUMINATION:

f. 4v: Heavenly sphere.

foll. 6v-48v: GERMANICUS CAESARIS. ARATEA VERSES 1-430 WITH SCHOLIA SANGERMANENSIA (Breysig, pp. 109-81).

f. 6v: Ab Iove principium magno...

f. 48v: in capite claram unam in ala duas in cauda tres (added in margin: in pedibus singulas ab unguibus sunt omnes sex omnes simul fiunt).

ILLUMINATIONS WITH STARS MARKED:

f. 6v: Jupiter on eagle. f. 9r: Draco inter arctos. f. 11r: Hercules. f. 11v: Corona. f. 12v: Serpentarius on Scorpio. f. 14v: Bootes (Plate IVb). f. 15r: Virgo. f. 17r: Gemini and Cancer. f. 19r: Leo. f. 20r: Agitator (Plate Vb). f. 22r: Taurus. f. 23r: Cepheus. (Saxl I, fig. X) f. 23v: Cassiopeia. f. 24v: Andromeda. f. 25r: Equus. f. 26r: Aries. f. 27v: Triangulus. f. 28r: Pisces. f. 29r: Perseus. f. 30r: Pleiads. f. 31r: Lyra. f. 32r: Cygnus. f. 32v: Aquarius; Capricornus (Saxl III, fig. 25). f. 35v: Sagittarius. f. 36v: Aquila; Sagitta. f. 37v: Delphin. f. 37 bis r: Orion. f. 39r: Sirius. f. 41r: Lepus. f. 42r: Argo. f. 43r: Cetus. f. 43v: Fluvius. f. 44v: Piscis magnus. f. 45v: Sacrarium. f. 46v: Centaurus. f. 47v: Hydra, cornus and crater.

(For Jupiter, see Saxl I, fig. VIII; Sagittarius, III, fig. 26; Orion, I, pl. XXI. 43; Fluvius, I, pl. II. 4).

foll. 48v-50v: ARATUS. PHAENOM. RELIQUIAE (Breysig, III, pp. 52-163).

f. 48v: Ethereum venit taurus super...

f. 50v: dabunt non irrita pisces.

foll. 50v-54v: EXCERPTS FROM SCHOLIA SANGERMANENSIA (Breysig, pp. 193-202).

f. 50v: Solem per se ipsum constat moveri...

f. 54v: quarto namque his certissimus auctor.

ILLUMINATIONS:

f. 52r: Sol. f. 55r: Luna.

fol. 55r-57v: EXCERPTS FROM PLINY NAT. HIST. XVIII (Breysig, pp. 203-9).

f. 55r: A Bruma in favonium cesari nobilia...

f. 57v: XLV die ab equinoctio dicimus fieri.

fol. 57v-60v: EXCERPTS FROM PLINY NAT. HIST. XVIII (Breysig, pp. 210-15).

f. 57v: Ante omnia autem duo esse nomina...

f. 60v: in media segete non esse noxias tempestates.

f. 60v: DE POLIS MUNDI (Breysig, pp. 111-12). Vertices extremos circa quos celi spera... sunt omnes xx.

ILLUMINATION:

f. 61r: Austronotus.

fol. 61r-70r: PLINIUS, NAT. HIST. XVIII 341, 342 and HYGINUS, ASTRONOMICA IV 6-14.

f. 61r: Primum a sole capiemus presagia...

f. 70r: impleat lumine. Si quis/non se trova piu.

fol. 70v-71r: Blank.

fol. 72r-107v: HYGINUS. ASTRONOMICA III-IV.

f. 72r: Ornate initial opens: Igitur incipiemus a polo boreo protinus dicere quo...

f. 107v: descendens redit ad eundem.

ILLUMINATIONS WITH STARS INDICATED FOR BOOK III (identical with the few found in Florence Magl. XI. 114 vol. I):

f. 72v: Draco inter arctos. f. 73r: Bootes. f. 73v: Corona. f. 74r: Engonasin. f. 75r: Lyra. f. 75v: Cygnus. f. 76r: Cepheus. f. 76v: Cassiopeia. f. 77r: Andromeda. f. 78r: Perseus (Saxl III, fig. 28). f. 78v: Agitator (Plate VI b). f. 79v: Serpentarius; Sagitta. f. 80r: Aquila. f. 80v: Delphin. f. 81r: Equus. f. 81v: Deltoton. f. 82v: Taurus. f. 83r: Gemini. f. 83v: Cancer. f. 84r: Leo. f. 84v: Virgo. f. 85r: Libra. f. 85v: Sagittarius. f. 86r: Capricornus. f. 86v: Aquarius. f. 87r: Pisces. f. 87v: Pistris. f. 88r: Eridanus; Lepus. f. 88v: Orion. f. 89r: Canis. f. 89v: Prochion; Argo. f. 90v: Centaurus; Ara. f. 91v: Hydra, corvus and crater; Piscis magnus. (For Eridanus, see Saxl III, fig. 14).

fol. 108-117v: DE DIFFERENTIA TEMPORUM ORTUS SIGNORUM (Expanded variant of Mart. Cap., *De Nupt.*, VIII, 844-45).

f. 108r: Temporum quoque ipsorum signorum...

f. 117v: isti habent in occasum.

fol. 117v-121r : DE CIRCULIS PLANETARUM (Mart. Cap., *De nupt.*, VIII, 855-87).

f. 117v: Terra centron est spere celestis...

f. 121r: aut retrogradari facit.

fol. 121r-123v: EXCERPTUM DE ASTROLOGIA ARATI: DE POLIS (Maass, pp. 309-12).

f. 121r: Duo sunt extremi vertices mundi...

f. 123v: ipsum usque decurrit accipiens (line 3, remainder page blank).

fol. 123v-126v: Blank.

fol. 127r-169r: HYGINUS. ASTRONOMICA I-II.

f. 127r: Gold capitals: Incipit liber Iginii de imaginibus. Ordinary script: Et si studio gramatice artis...

f. 169r: omnium corporum deformationem dicere instituimus.

Explicit Iginius non figuratus.

fol. 169v-170r: Blank.

BIBLIOTECA MARUCELLIANA, C. CCLI

Second half of XV. Humanistic cursive. 30 foll. 210 x 147. Number of lines varies according to illustrations, in Book II normally 23-24. On f. 1v, in 18th century hand: Biblioth. Publicae Maruc. Aug. Mar. Bandinius.

fol. 2r-30v: BASINIUS PARMENSIS. ASTRONOMICON.

f. 2r: Red capitals: Basinii Parmensis Astronomicon/Liber primus/ Ordinary script: Hetherios orbis subiectaque templa deorum...

f. 30v: Templa cano atque vias semper volventis olympi/Τελος.

PEN DRAWINGS (WITH STARS MARKED AND NAMED):

f. 6v: Draco inter arctos. f. 7r: Bootes; Corona. f. 7v: Hercules. f. 8r: Lyra. f. 8v: Olor. f. 9r: Cepheus. f. 9v: Cassiopeia. f. 10r: Andromeda. f. 10v: Perseus. f. 11r: Auriga. f. 12r: Anguitenens. f. 13r: Sagitta; Aquila; Delphin. f. 13v: Equus. f. 14r: Cetus; Eridanus. f. 16r: Ara; Hydra, crater and corvus; Piscis; Aries. f. 16v: Taurus. f. 17r: Gemini. f. 17v: Cancer. f. 18v: Leo; Virgo. f. 19r: Capricornus. f. 19v: Aquarius. f. 20v: Pisces.

BIBLIOTECA NAZIONALE CENTRALE, II. II. 83

Second half of XV (Dati of this date; other sections range from XIV-XVI). Italian. Paper. xxviii + 251 foll. 290 x 210. Very varying number of lines. Red board binding with leather spine and corners. Clearly originally 3 separate volumes, as a note on f. iir indicates.

Mazzatinti, IX, pp. 8-10.

foll. 2r-74r: *ÆSOP. FABLES* (Italian version by "uno da Siena" of which there are many editions, that entitled *Favole d'Esopo volgarizzate per uno da Siena cavate del codice Laurenziano inedito*, Florence, 1864, including on pp. 166-70 the last fable in our MS. "Favola inedita della volpe e del granchio.")

foll. 2r-3v: *Chapter list*. Tavola di questo libro chiamato Isopo. Del gallo e della pietra preziosa Cap.º 1. . . del granchio capitolo LXIIIº.

f. 4r: Al nome di Dio amemen (sic) Questo libro si chiama Isopo volgarizzato per uno da Ssiena. Ecomincia dal gallo che cercava dell'escha nella bruttura e trovò la pietra preziosa. Per una stagione. . .

f. 74r: che per loro non volessino ricievere.

foll. 74v-75v: Blank.

foll. 76r-119r: *ALDOBRANDINO DA SIENA. LA SANITÀ DEL CORPO* (Italian version).

f. 76r: Incomincia il prolagho del libro del Maestro Aldobrandino della Santà del corpo dell'uomo e di tutti gl'altri membri. Di chognoscere l'aria...

f. 77r: Della state et del verno.

f. 78r: Qui comincia il libro del maestro Aldobrandino da Siena compillato in Parigi della sanità del corpo e di ciascuno membro. traslato di francesco in latino.

Iddio che per sua grande possança. . .

f. 119r: e delle nature inançi nominate.

foll. 119r-125r: *PSEUDO-ARISTOTELES. PHISONOMIA* (Italian version: extracts).

f. 119r: Di cholui che vuole saper l'arte della phisonomia./Chi vuole avere bene l'arte della fisonomia. . .

f. 125r: sguardamento di ragione.

foll. 125r-126r: PROPRIETA DEL RAMERINO.

f. 125r: Qui comincia le xxvi proprieta del Ramerino. Se alchuno avesse deboli e infermi piedi...

f. 126r: Prenda e costumi e guarra.

f. 126v: Blank.

foll. 127r-130v: TABLES OF MOON AND SIGNS OF ZODIAC.

f. 127r: Below table: Della maestria di rinvenire la luna in questa tavola cio è in che sengno ella e./Chi vuole trovare in qual sengno fia la luna...

f. 130r: e la notte e lunga.

foll. 130v-138v: Medical prescriptions by Luca di Maso degli Albizi, Piero da Norcia, Craiamci d' Orbixiano, Mariano Aromatoria, Donato Ricci, Raffaele da Carpi, Tommaso da Riéti, Lorenzo Gozzadini, followed by a prayer to the Virgin on f. 139r.

foll. 163v-190v: MAITRE GOSSOUIN. L'IMAGE DU MONDE (Italian version).

f. 163v: Chapter list.

f. 164r: Qui chomincia li chapitolli de libro della immagine del mondo.

Questo é i libro de la filosofi cio è de la immagine del mondo...

f. 190v: Quie finiscie i libro della immagine del mondo. In Dio inchomincioe et in Dio prende finé. Fato ee tralaslatato fue questo libro di gramaticha i llinghua francescha l'anno de la incharnazione di Giesu Christo MCCXLV anni. Et apresso fu traslatato del francescho e messo in questo volghare che di sopra si chontiene... Questo libro fue chonpiuto di scrivere anni Domini MCCCCLXXX mercholedi di XVII d'otobre in Massa di Valdinievole.

foll. 191r-214r: DATI. SFERA.

f. 191r: Qui chomincia le stançe che ffece Ghorio di Stagio Dati/ e cchiamasi la spera distinta in tre libri chomincianda qui libro primo./Al padre al figlio allo spirito ssanto...

f. 214v: L'Asia maggiore el fiume Tanai./Finita la spera deo grācijas/ammen/stançe 144.

ILLUSTRATIONS:

f. 193r: Mars; Saturn; Jove. f. 194r: Appollo. f. 194v: Venus; Mercury.
foll. 214v-215: Blank.

foll. 216r-219r: TABLES.

f. 216r: *Scale of years*. MCCCCL. Questa si è la ragione fatta pegli anni a venire chome charnasciale andrà alto o bbasso, chominciando nel MCCCCL...down to 1490.

f. 217r: *Lunar rota*. Questa si è la ragione della luna la quale fece Salamone. Years given from 1447-1503.

foll. 217v-218v: Table of months with degrees and hours.

f. 219r: Table for years 1450-1532, giving golden numbers for years.

foll. 219v-221v: Blank.

foll. 222r-229v: LA VENDETTO DI CRISTO (and other texts).

f. 222r: Qui chomincià la vendetto di Christo chontro a Gudei la qale fece Tito e Vespasiano. Nel tenpo che rrengniava lo nperadore Tiberio...

f. 229v: stando ginochione.

f. 230: Blank.

foll. 231r-239r: CONCERNING THE MOON.

f. 231r: Qui chomincia la reghola di volere ritrovare la patta ensengnia che modo si debba tenere e molt'altre cose della luna./Al nome d'Iddio e della Vergine Maria...

f. 239v: La merchatantia ett.

f. 240r: Blank.

foll. 240v-250r: LIBRO DELLE VENTURE.

f. 240v: Sonetto fatto per la ventura. Ventura sono che tutto l'mondo inpero...

f. 241r: Qui chomincia el libro delle venture...

f. 250r: non che d'altro.

f. 251: PHYSIONOMIA.

f. 251r: Segnali delle fisionomie degli uomini. (D)isse Aristotile. f. 251v: finiti è sengniali della natura...

f. 251v: inanzi ch'antrenporo mossa le dea.

BIBLIOTECA NAZIONALE CENTRALE, ANGELI 1147 A.6

XV (many notes in XVI hand). Italian. Parchment. 14 foll. (of which foll. 2-11 form quire of 10, and foll. 1, 12, 13, 14 are single leaves). 230 x 170. Binding of tough skin. Fol. 1 is a fly leaf from 12th century Antiphonary, notes on planets written on verso in late 16th century hand. 2 hands wrote astronomical notes, the one on the figures themselves probably late 15th century, the second a 16th century scribe.

foll. 2r-14v: ILLUSTRATED QUIRE WITH ROUGH JOTTINGS (close to star map in Vienna 5415, foll. 168r, 170r, see Saxl II, pp. 150-55, pls. IX-X): f. 2r: Horoscope; Cassiopeia. f. 2v: Cepheus. f. 3r: Orion. f. 3v: Lepus; Canis minor; Canis maior. f. 4r: Ursa maior. foll. 4v-5r: Centaurus-Lupus; Altare. f. 5v: Equus minor. foll. 5v-6r: Argos; Delfin. f. 6r: Corona meridionalis. f. 6v: Delatton. foll. 6v-7r: Andromeda. f. 7r: Perseus. f. 7v: Corona; Bootes (Plate IVd). foll. 7v-8r: Hercules (Plate IVd). foll. 8v-9r: Serpentarius. f. 9v: Auriga (Plate Vd). foll. 9v-10r: Equus Pegasus (Plate Vd). f. 10r: Head of Andromeda. f. 10v: Cygnus. f. 11r: Vultur cadens; Sagitta; Aquila. f. 11v: Ursa minor. foll. 11v-12r: Draco. foll. 12v-13r: Hydra, corvus and urceus. foll. 13v-14r: Cetus. On all pages are comments on the stars and calculations relating to the Egyptian days. On each drawing is inscribed a note on the origin of the stars of the particular sign.

(For Cassiopeia, Serpentarius see Saxl II, pl. IX; Centaurus — Lupus, II, pl. X).

BIBLIOTECA NAZIONALE CENTRALE, MAGL. XI. 114 vol. 1

XV. Italian. Paper. i + 36 foll. (once numbered 57-110). 295 x 220. 2 columns of 42-49 lines. Leather binding, identical with that on vol. 2 Magl. xi. 114. Label inside binding: xi. 114¹. Provenienza Strozzi f^o, no. 176. 17th century hand on fly leaf writes: XI. 114 no. 176. Domini Andalo de Nigro de Ianua Theorica Planetarum et Tractatus Sphaerae. De Senatore Carlo di Tommaso Strozzi. Inside rear binding: Cc. 36 modernamente numerate, più una guardia scritta in principio. La c. 20 è bianca. Settembre 1916. T. L.

C. Leonardi, *art. cit.*, p. 52 (with bibliography and description of the original connection between vols. 1 and 2); B. L. Ullman, *The Humanism of Coluccio Salutati*, Padua, 1963, pp. 89, 209, 232.

foll. 1-8v: ANDALÒ DI NEGRO. THEORICA DISTANTIARUM OMNIUM SPERARUM (T-K 1151; other copy in Paris lat. 7272, foll. 85r-99v, see B. Boncompagni, "Catalogo dei lavori di Andalò di Negro", *Bullettino di Bibliografia e di Storia delle Scienze Matematiche e Fisiche*, VII, 1874, p. 362).

f. 1r: Incipit theorica distantiarum omnium sperarum et circulorum et planetarum a terra et magnitudinem eorum composita a domino

Andalo de Nigro de Janua. Punctus centrum cusps sunt sinomina idest...

f. 8v: $\frac{16915666}{2168969}$ que sunt secunda 47. Explicit de distantis deo gracias amen.

foll. 9r-17r: HYGINUS. ASTRONOMICA III-IV (contents from here to f. 19v written by scribes not found in rest of MS., identical with Vat. lat. 3110 foll. 65- (90)v, for which see Saxl I, pp. 89-90, pl. III.5, and partly similar to Florence Plut. 89 sup. 43, foll. 72r-121r and Pavia Aldini 490, foll. 77r-130v).

f. 9r: (I) gitur incipiemus a polo boreo protinus...

f. 17r: redit ad eundem.

PEN DRAWINGS WITH SHADING AND STARS MARKED for Book III (close to those in Plut. 89 sup. 43 and also to some in Vat. lat. 3110):

f. 9r: Draco inter arctos; Artophilax. f. 9v: Corona; Engonasin; Lyra. f. 10r: Agitator; Serpentarius; Sagitta. f. 10v: Aquila (here as elsewhere in Book III spaces have been left blank for other illustrations). f. 11r: Taurus.

f. 17: DE DIFFERENTIA TEMPORUM ORTUS SIGNORUM (variant of Mart. Cap., *De Nupt.*, viii, 844-45).

f. 17r: De differentia ortus signorum. Temporum quoque ipsorum... habent in occasum.

foll. 17r-18v: HYGINUS. ASTRONOMICA I-II (Book II being in the form of an abbreviated paraphrase as found in Vat. lat. 3110).

f. 17r: Iginii gramatici Astrologia. Iginus Fabio suo salutem. Et si te studio grammaticae artis...

f. 18v: presisset mammam deformavit circulum.

f. 19: DE CIRCULIS PLANETARUM (Mart. Cap., *De nupt.*, VIII, 855-80).

f. 19r: De circulis planetarum. Terra centron est spere celestis...

f. 19v: ends imperfectly: certe regrediens.

foll. 21r-36v: TABULA STELLARUM (Ptolemaic).

f. 21r: Expositio canonica descriptionis stellarum secundum boreale emisperio./Formationes. Gradus Longitudinis. Gradus Latitudinis.

f. 36v: Tables end.

[Magl. XI. 114 vol. 2 contains Hyginus, *Astronomica* I-IV on foll. 1-22v

with foll. 23-24 blank. Leonardi considers these folios together with foll. 9r-19v of vol. 1 part of the same manuscript and a copy of Vat. lat. 3110. Certainly the script of foll. 9r-19v is different from that on foll. 1r-8v and 21r-36v in vol. 1].

BIBLIOTECA NAZIONALE CENTRALE, MAGL. XI. 141

Second half of XV. Several scribes. Paper, ii + 156 foll. 214 x 145. Varying number of lines (26 down to f. 100, 23 on foll. 105r-127v, 20 on foll. 128r-156r). Leather binding. 18th century notes on f. iir: Di Luigi del Senatore Carlo di Tommaso Strossi 1679. On binding: Provenienza Strozzi 4° no. 839.

Foll. 1r-67v: HYGINUS. ASTRONOMICA I-IV.

f. 1r: Higinus M. Fabio salutem. Et si te studio grammaticae artis . . .

f. 57r: cum sol ab estivo circulo redit.

f. 57v: Blank.

foll. 58r-67v: PEN DRAWINGS TO HYGINUS WITH STARS INDICATED SEPARATE FROM TEXT:

f. 58r: Draco inter arctos. f. 58v: Boetes; Corona. f. 59r: Hercules; Lyra. f. 59v: Cygnus; Cepheus. f. 60r: Cassiopeia; Andromeda. f. 60v: Perseus; Agitator. f. 61r: Serpentarius; Sagitta; Aquila. f. 61v: Delphin; Equus. f. 62r: Deltoton and Aries; Taurus. f. 62v: Gemini; Cancer. f. 63r: Leo; Virgo. f. 63v: Scorpio and Libra; Sagittarius. f. 64r: Capricornus; Aquarius. f. 64v: Pisces; Cetus. f. 65r: Eridanus; Lepus. f. 65v: Orion; Canis. f. 66r; Prochion; Argo. f. 66v: Blank. f. 67r: Centaurus; Ara. f. 67v: Hydra, corvus and crater; Piscis.

foll. 68r-70v: Blank.

foll. 71r-90r: NICOLAUS PEROTTUS. DE METRIS (ed. Bologna, 1471)

f. 71r: Capitals: Nicolai Perotti in librum de Metris prohemium incipit feliciter. Ordinary script announces prologue: Nicholaus Perottus poeta laureatus Iacobo Schioppio Veronensi S. P. Nichil a te iocundius nobis potuit. . .

f. 71v: fidelissime amantissimeque vixerimus vale.

f. 72r: Nicolai Perotti liber de metris feliciter ad Iacobum Scoppum Veronensem incipit. Pes est constitutio metrica sillibarum. . .

f. 89v: maxime in usu erant. Epilogus. Haec sunt mi iacobi quae. . .

f. 90r: nec me laboris peniteat mei. vale. Nicholai Perotti liber de metris ad Iacobum Veronensem sunt feliciter.

fol. 90r-100r: NICOLAUS PEROTTUS. DE METRIS HORATIANIS (ed. Bologna, 1471).

f. 90r: Nicholai Perotti epistola de Horatii Flacci ac Severum Boetii metrorum diversitate ad Helium Perottum fratrem. Nicholaus Perottus Helio Perotto fratri salutem plurimam dicit. Ex omnibus immortalis dei ergo me beneficiis...

f. 100r: fructum intellexero vale finis.

fol. 100v-104v: Blank.

fol. 105r-127r: PHOCAS. DE NOMINE ET VERBO (H. Keil, *Grammatici Latini*, V, Leipzig, 1868, pp. 405-39).

f. 105r: Ars mea multorum es quos secula prisca tulerunt...

f. 127r: ut vigilanda viris ex his similia finis.

fol. 127v-128: Blank.

fol. 129r-156r: PRISCIAN. PERIEGESIS (see K. Mueller, *Geographi Graeci minores*, II, Paris, 1882, pp. 190-99; Baehrens, pp. 275-312).

f. 129r: (N)ature genitor que mundum continet omnem...

f. 156r: Omnipotens pro quo genitor mihi praemia donet. Finis. Prisciani grammatici Periegesis id est descriptio orbis et terrarum et maris secundum dionisium explicit.

BIBLIOTECA RICCARDIANA, 3011

End of XV. Humanistic cursive by 2 hands. 46 foll. (44-46 unnumbered). 290 x 216. 2 columns of 30 lines in foll. 1-17, 2 cols. of 39 lines in foll. 20r-43v, the two parts being the work of two different scribes. Board binding with spine of skin. 16th century hand on f. 1r: no. 473 Juliani Riccii, and on f. 19v Dno. Io. Theleph.

M. L. Scuricini Greco, *Miniature Riccardiane*, Florence, 1958, no. 317.

fol. 1r-17r: LUDOVICUS DE ANGULO. DE FIGURA SEU IMAGINE MUNDI III. 3 — end.

f. 1r: Sequitur tertia/pars quae est de superiori sphaera coeli et stellis fixis...

f. 17r: quid de numero stellarum firmamenti sentiebamus/quae terminant duodecim signa, et etiam xxxvi imagines eius cum dei laude.

PEN DRAWINGS WITH SHADING (found also in St. Gall Vad. 427, Paris lat. 6561, Paris fr. 612 and Madrid 9267):

f. 2v: Draco inter arctos. f. 3r: Hercules; Corona; Serpentarius on Scorpio. f. 3v: Bootes; Agitator. f. 4r: Cepheus; Cassiopeia; Equus vespertinus. f. 4v: Andromeda; Perseus; Triangulus. f. 5r: Glochea; Lyra; Cygnus; Vultur volans. f. 5v: Sagitta-vultur cadens; Cethus. f. 6r: Eridanus; Canopus; Delphinus. f. 6v: Orion; Canis; Lepus. f. 7r: Navis (in pencil outline); Austronotus. f. 7v: Demon meridianus; Pisces. f. 8r: Puteus; Centaurus. f. 8v: Hydra, corvus and crater; Anticanis; Equus secundus (erased and "primus" substituted). f. 9r: Tarabellum; Vexillum. f. 9v: Aries; First Decan (vir brunus). f. 10r: Second Decan (femina lintheolis ac pannis rubeis); Third Decan (vir flavi corporis... torquens ligneam virgam); Taurus. f. 10v: First Decan (duo viri); Second Decan (vir male indutus habens clavem manu); Third Decan (unus vir... serpentem manu tenens; vir corpore ex elephante et leone). f. 11r: Gemini; First Decan (vir manu sua virgam tenens; iuxta eum clienculus vel mulier benivola(?) forma); Second Decan (vir forma ethiopsis). f. 11v: Third Decan (vir armatus); Cancer; First Decan (vir adolescens clare forme... corpore ex equo et elephante; una de tribus puellis virginibus). f. 12r: Second Decan (una de tribus virginibus; alia puella placita visu); Third Decan (puella tertia; vir habens tortuce pedes similes); Leo. f. 12v: First Decan (vir parentes lugens; dominus equi respiciens in partem boree); Second Decan (idolum elevatum manibus alta voce clamitans; vir acuti nasi in capite coronam); Third Decan (vir deformis similis ethiopi). f. 13r: Virgo; First Decan (virgo... manu geminas aristas tenens; vir... insedens); Second Decan (vir niger ursutus triplici panno indutus); Third Decan (mulier muta casta candida). f. 13v: Libra; First Decan (vir iracundus in sinistra eius manu statera et in dextra agnus; vir musicus equum sedens); Second Decan (vir forme vulturis). f. 14r: Third Decan (vir nudus... manum sinistram super caput habens dextra contendens cum corona; vir equi vultus); Scorpio; First Decan (vir male indutus torquens manu hostile; mulier... cibo gestiens). f. 14v: Second Decan (vir nudus; puella nuda... cum pecunia); Third Decan (homo habens in manibus geminos angues; canis furiosus silvestris ingens sequens genera venationum); Sagittarius. f. 15r: First Decan (vir... nudus capite diminutus; centaurus); Second Decan (mulier... insedens camelum); Third Decan (vir aurei coloris) (Pl. VIIa). f. 15v: Capricornus; First Decan (mulier collecte etatis; vir hirsutus... rethibus piscari(?) paratus); Second Decan (mulier... lectica residens; mulier nigris pannis); Third Decan (mulier visu placida). f. 16r: Aquarius; First Decan (vir forme ethiopsis... cum eo vasa lignea et aenea). Second Decan (vir forma ethiopsis equo similis in capite et manu arcum et spicula gestans). f. 16v: Third Decan (vir niger atrox dolosus aure

pilosa capite sectum et fronde); Pisces; First Decan (*vir ornate vestitus domum tenens ignem tenace ferrea componens manu tres pisces ante se ponenda*) (Pl. VII b). f. 17r: Second Decan (*mulier vultu venusta corpore candida marique navigans...cum ea est cognata eius et noti*); Third Decan (*vir porrectus pedibus; masculus pregnans in utero ethiopen habens*).

fol. 17v, 18, 19 are blank, foll. 10-19 forming a quire of 10.

(For Eridanus, see Saxl I, pl. IX. 20; Aries Decan, III, pl. LXXX. 207; Gemini Decan, III, pl. LXXXI. 210; Cancer Decan, III, figs. 31-2, Pl. LXXXII. 212; Scorpio Decan, II, fig. 36).

fol. 20r-43v: *HYGINUS. ASTRONOMICA* I-IV. ix (imperfect).

f. 20r: Red: Hyginus de Signis Caelestibus quem scribit (dots under these two words) ad M. Fabium. Ordinary ink: (H)yginus M. Fabio plurimam salutem. Et si te studio grammaticae artis...

fol. 22v-36v: Here spaces are left blank for stellar illustrations.

f. 43v: ends imperfectly (iv, ix): ad eum locum ubi occidere dicatur ibi montium magnitudine.

LUCCA

BIBLIOTECA GOVERNATIVA, 1343

End of XV. Pointed Humanistic cursive. Paper. 25 foll. 287 x 220. Board binding.

fol. 1r-25v: *DATI SFERA*.

f. 1r: Al padre al figlio allo spirito sancto...

f. 25v: L'Asia maggiore all fiume Thanay.

COLOURED WASH ILLUSTRATIONS (identical with those in *Medic. Palat.* 90):

f. 3r: Roundels with Saturn, Jupiter and Mars. f. 4v: Roundels with Venus and Mercury.

MILAN

BIBLIOTECA AMBROSIANA, I. 90 SUP.

XV (foll. 161-192: 28 July 1441). Gothic minuscule (German) by various hands. Paper. iii + 256 foll. (foll. 208-214 being blank). 267 x 184. 2 cols. of 40-41 lines. Modern leather and board binding. Inside recto of first fly leaf: *restaurato a Praglia nel febbraio 1953*. On f. iii r, 18th century hand wrote: *hic codex olim Johannis Vincentii Pinelli. A cuius heredibus Neapoli emptus fuit una cum reliquiis aliis iussu Illustrissimi Cardinalis Federici Borromei Ambrosianae Bibliothecae fundatoris olgiatus scripsit 1609*. Modern hand adds: *cfr. notam*

script. f. 192v ... scripta per Jacobum Schonloip de Prussia anno domini 1441 28 die mensis Julii. On fly leaf iiiv as on iiii 18th century hand lists contents, fuller version being on f. iiiv: 1. Magistri Blasii de Parma tractatus de Perspectiva usque ad fol. 81 2. Super Iohannis de Sacrobosco tractatum de Sphaera opus Prosdocimis de Beldemando Paduani anno 1415 fol. 81 ad 157. 4. Tractatus de astrolabio sphaerico ed de chilindri ad fol. 120. 5. Tractatus in librum Michaelis Scoti de notitia doctrinae ... in omni parte mundi. fol. 215. 3. Collectanea ex Thadao de Parma super Theorica Planetarum Girardi Cremonensis a fol. 161 ad fol. 195. Below and crossed out: Gerardi Cremonensis expositio Theorica Planetarum secundus (?) Thadeum de Parma scripta anno 1441 fol. 162.

fol. 1r-74r: BLASIIUS DE PARMA. TRACTATUS PERSPECTIVE (Thorndike, IV, pp. 657-59).

f. 1r: Red: Questiones Magistri Blasii de Parma super tractatum perspective. Queritur utrum pro visione causanda...

f. 74r: in tertio ad rationes contrariumque quantum ad primum articulum.

Diagrams foll. 74r-80v.

fol. 81r-156v: PROSDOCIMO DE BELDOMANDI. COMMENTARY ON SACROBOSCO, DE SPHAERA (T-K 1235; see Sphere collection of 1531 where this is supplemented by Bartholomeus Vespucci; A. Favaro, "Intorno alla vita ed alle opere di Prosdocimo de' Beldomandi", *Bullettino di Bibliografia e di Storia delle Scienze Matematiche e Fisiche*, XII, 1879, pp. 171-87).

f. 81r: Bonum enim quanto communius...

f. 156v: ad dominum. Et sic sit finis huius operis per Prosdotinum de Beldemando de Padua. Anno domini nostri iesu christi 1418 padue compilato ad laudem et gloriam omnipotentis dei et etiam totius superioris curie amen. Deo gratias.

DIAGRAMS foll. 157r-160v.

fol. 161r-192v: TADEUS DE PARMA. SUPER THEORICA PLANETARUM GIRARDI CREMONENSIS (Thorndike, III, p. 649; *Isis*, L, 1959, p. 48).

f. 161r: Circulus ecentricus...

f. 192v: cum instrumento valde magno. Explicit expositio theoroice planetarum Benemeritum (?) Thadeum de Parma scripta per Iacobum de Schonloip anno domini 1441 28 die mensis July. Diagrams foll. 192v-194v, including text of THEBIT BEN CORAT (?) DE IMAGINIBUS: Aspectus planetarum sic potest...et non corporaliter. (Thorndike, "Traditional medieval texts concerning en-

graved astrological images," *Mélanges Auguste Pelzer*, Recueil de Travaux d'Histoire et de Philologie, 3^{me} série, 26^{me} fascicule, Univ. de Louvain, Louvain, 1947, p. 236 mentions Munich Clm. 14684, f. 79 where this text is entitled: Thebet ben Chorat de imaginibus; Carmody, p. 127 is based on this reference.)

foll. 195r-206r: ACCURSIUS DE PARMA/JOHANNES DE HARLEBEKE. TRACTATUS SOLIDA SIVE DE ASTROLABIO SPERICO (T-K 1576; Saxl I, pp. 16, 81; II, p. 152).

f. 195r: In nomine domini nostri iesu christi. Incipit tractatus solida sive de astrolabio sperico compositus anno domini 1435. Tocius astrologie speculationis radix et fundamentum...

f. 206r: hunc tractatum sub laude dei finiemus. Deo gratias amen.
DIAGRAMS: foll. 195v-200r.

foll. 206v-207v: TRACTATUS DE COMPOSITIONE CHILINDRI (Valentinelli, *Bibl. Manuscripta ad S. Marci Venetiarum*, I, VIII. 69 (XI. 86), foll. 245-6; *Isis*, L, 1959, p. 48 n. 117).

f. 206v: Incipit tractatus de compositione chilindri et consequenter de usu eius. In consideratione chilindri duo ...

f. 207v: ante meridiem circulit (?) Et sic continet huius tractatus (?) chilindri. Deo gracias amen.

foll. 208r-214v: Blank.

foll. 215r-238v: MICHAELUS SCOTUS. LIBER DE IMAGINIBUS (part of *Liber introductorius*, see Bodl. 266, foll. 107r-114v: some discussion of this tract in Thorndike, *Mélanges Pelzer*, pp. 266-7).

f. 215r: Incipit quidam tractatus de libro que fecit Michael Scotus de noctitia doctrine que insinuat quando unum quodque signum de numero 12 oritur et occidit similiter de unaquoque imaginum signorum celi tam in die quam in nocte. Et de dominio de seu regimine predictarum in omni parte mundi et cetera. Omnes ymagines numero 48.

f. 238v: hec est forma sui aspectus in celo.

PEN DRAWINGS, WITH STARS INDICATED (see also Padua Seminario 48, Vienna 2352, 2378, 3162, 3394, see Saxl II, pp. 87, 100, 128, 131, pl. VII. 13, fig. 23a, pl. VI.12, fig. 23b, Munich 10268, Add. 41600, Bodl. 266, see Saxl III, pp. 85, 295 figs. 13, 15-16, pl. LXXV. 189-90):

f. 216v: Aries. f. 217r: Taurus. f. 217v: Gemini. f. 218r: Cancer. f. 218v: Leo. f. 219r: Virgo; Libra. f. 219v: Scorpio. f. 220r: Sagittarius; Capricornus. f. 220v: Aquarius. f. 221r: Pisces. f. 221v: Draco inter arctos.

f. 222r: Draco. f. 222v: Hercules. f. 223r: Corona. f. 223v: Serpentarius on Scorpio. f. 224r: Boetes. f. 224v: Agitator. f. 225r: Cepheus. f. 225v: Cassiopeia. f. 226r: Equus vespertinus. f. 226v: Andromeda. f. 227r: Perseus; Triangulus. f. 227v: Clocha sive galina. f. 228r: Lira. f. 228v: Cignus. f. 229r: Vultur volans. f. 229v: Vultur cadens. f. 230r: Cetus. f. 230v: Eridanus. f. 231r: Figura sonantis canonem. f. 231v: Delfinus. f. 232r: Orion. f. 232v: Canis. f. 233r: Lepus. f. 233v: Navis. f. 234r: Austronotus. f. 234v: Demon. f. 235r: Piscis magnus. f. 235v: Puteus. f. 236v: Centaurus. f. 237r: Idra, corvus and crater. f. 237v: Anticanis. f. 238r: Equus; Terebellon. f. 238v: Vexillum.

(For Agitator, see Saxl III, fig. 16; Cassiopeia and equus vespertinus, II, pl. VII. 13; Andromeda, III, fig. 15; Perseus (no wings), II, fig. 23a; Eridanus, III, fig. 13; Demon, piscis magnus and puteus, II, pl. VI. 12).

foll. 239r-242r: MICHAELUS SCOTUS DE NOTITIA ET SIGNIFICATIONE PLANETARUM (found in all Scotus manuscripts cited above save Padua 48; corresponds to Bodl. 266, foll. 114v-116v: of the others our MS. agrees with Add. 41600, Vienna 2352, 2378 in having slightly abbreviated versions of the Scotus text; Vienna 3394, foll. 234r-238r has full extract).

f. 239r: De notitia et significatione planetarum prout pinguntur et cetera. Luminaria firmamenti celi sunt...

f. 242r: aves diurne odiunt nocturnas et e converso ut patet.

PEN DRAWINGS (found in all manuscripts mentioned):

f. 239v: Saturn; Jupiter. f. 240r: Mars. f. 240v: Sol. f. 241r: Venus; Mercury. f. 241v: Luna.

(For Sol, see Saxl III, pl. LXXV. 189).

foll. 242-242v: DE HABITUDINE PLANETARUM (also Add. 41600, foll. 56r-56v; Munich Lat. 10268, f. 85r; the Add. version differing slightly from that in Munich and in our MS.).

f. 242r: Exposicio habitudinis planetarum malis est ...

f. 242v: veritate pauca et malicia multa.

foll. 242v-244v: MICHAELUS SCOTUS. DE SEPTEM PLANETIS QUANDO DOMINANTUR PER ANNUM (see Add. 41600, foll. 56v-58v; Bodl. 266, foll. 194r-195r).

f. 242v: De Saturno quando est dominus anni. Saturnus est planeta et non stella...

f. 244v: iam dictum est in precedentibus.

foll. 244v-245v: MICHAELUS SCOTUS. DE NOTICIA SIGNI (Add 41600, foll. 58v-59v, Bodl. 266, f. 166r).

f. 224v: De noticia signi tonitruorum qui fiunt in anno secundum quod luna regitur in suo signo. Secreta iudicia huius artis sunt valde dispersa. . .

f. 245v: Venus in piscibus, Mercurius in venere.

foll. 245v-246r: DE PLANETIS ET SIGNIS (Add. 41600, foll. 59v-60r).

f. 245v: De planetis et signis in quibus morantur. Saturnus in libro de motibus planetarum Ptholomei. . .

f. 246r: complet cursum suum in 28 diebus.

foll. 246r-247r: MICHAELUS SCOTUS. DE NOTICIA NOMINUM HORE DIEI (Add. 41600, foll. 60r-61v, Bodl. 266, foll. 162r-v).

f. 246r: De noticia nominum hore diei ac noctis ac de natura effectus ipsarum per operacionem uniuscuiusque tam in bono quam in malo. Hore inter diem et noctem ut praedictum est. . .

f. 247r: tam ad bonum quam ad malum. Deo gratias. Astronomiam primi egiptii invenerunt. Astrologiam vero et nativitate. . . Josep-hus hystoriographus auctor educit (see Add. 41600, f. 61v).

foll. 247r-248v: DE SOLIS NOMINE (Add. 41600, foll. 61v-63r).

f. 247r: De solis nomine et aliarum stellarum sive siderum et signorum. Sol appellatus eo quod solus. . .

f. 248v: et in superna collocaione collocaret.

foll. 248v-249r: DE SITU ET REGIMINE SOLIS (Add. 41600, foll. 63r-64r).

f. 248v: In super scias quia sol est locatus in medio planetarum. . .

f. 249r: quod est in meridie et quia est in septentrione et cetera.

foll. 249v-266v: EXPOSITIO THEORICE PLANETARUM GERARDI (also Salamanca 1697, foll. 61v-110v, see G. Beaujouan, *Manuscripts scientifiques médiévanes de l'Université de Salamanque et de ses "colegios mayores"*, Bordeaux, 1962, p. 68).

f. 249v: Ad laudem dei omnipotentis. . .suppleant supplemenda. Circa initium igitur dicti libelli propono propositionem quam scribet Ptholomeus prima parte Quadripartiti sui. . .

f. 266v: ends imperfectly: ex ypostasi. . . (Blank unnumbered leaf between f. 161 and f. 162 seems an insertion and does not interrupt text.)

SOME DIAGRAMS.

BIBLIOTECA AMBROSIANA, N. 55 SUP.

Second half of XIV. Parchment. 30 foll. (foll. 28-30 have 16th century entries). 180 x 115. 2 columns of 34 lines. Contemporary binding.

f. 1r: PETRUS DE DACIA. TABULA. Column a: Red/blue lines; In ista parva tabula sunt /quatuor cicli sive linee ad/sciendum que littera est prima/cionis lune per annos domini. Years from 1292-1643. (See Florence, Laurenziana, Conv. Soppr. 174, f. 1v).

foll. 1r-1v: PETRUS DE DACIA (GERLANDUS?). CANON SUPER KALENDARIUM. f. 1r: Column b: Blue/red lines; Canon super kalendarium/magistri Petri de Dacia dicti/Philomena. Quere inter numeros in superiori istius tabule. . . f. 1v: in media nocte precedente. (See Conv. Soppr. 174, f. 1v).

f. 1v: PETRUS DE DACIA. CANON SUPER KALENDARIUM. Column a: Red/blue lines: Canon supra tabulam magistri Petri/de Dacio dicti Philomena./ Ad locum eciam lune ha/bendum videas. . . Column b: gradum computabis.

f. 2r: USE OF QUADRANT (T-K 61). Red: Ad sciendum horas diei per/quadrantem/Si volueris scire horas/diei per quadrantem. . . secunda et sic de aliis.

f. 2v: Blank.

foll. 3r-8v: CALENDAR. Ecclesiastical and lunar, the column on the left showing "Quatuor cicli primacionis lune," those on right "Quantitatis diei," and "Altitudo solis."

f. 3r: January. f. 8v: December.

foll. 9r-11r: TABULAE AND ROTAE.

f. 9r: Tabula ad sciendum v festa mobiles.

f. 9v: Tabula magistri Petri de Dacia ad sciendum in quo signo sit luna et in quo gradu illius signi.

f. 10r: Tabula ad sciendum quis planetarum regnat in qualibet hora diei et noctis.

f. 10v: Two rotae marked 1330. 1. Ad inveniendum numerum aureum ciclum clavium et ciclum epaccam vel annus communis vel embolismalis et per annos domini. 2. Ad inveniendum litteram dominicalem et litteram bisextilem et ciclum concurrencium et ciclum solarem et per annos domini.

f. 11r: Tabula eclipsis solis et lune usque ad annos 1370. Et sciendum est quot dies et hore incipiunt in meridie diei.

f. 11v: DIAGRAMS: 1. Phases of moon. 2. Eclipse of sun. 3. Eclipse of moon.

f. 12r: TEXT ON ZODIAC MAN (who is illustrated). *Dominium signorum. Duodecim sunt signa sunt aries taurus... bonum ducere uxorem.* (See L. Bellari, "Iconografia Medica in Codici Ambrosiani", I *Rendiconti Istituto Lombardo di Scienze e Lettere*, 83, 1950, p. 266, pl. 4.).

f. 12v: 1. Table of Houses and exaltation of Planets. 2. Rota of spheres.

fol. 13r-26v: TRACTATUS DE 12 SIGNIS.

f. 13r: Tractatus de 12 signis. Aries est primum signum celi zodiaci domus divina Martis; exaltacio solis masculinum...

f. 26v: timidus vanus et inconstans. Red: explicit tractatus de 12 signis.

MEDALLIONS WITH REPRESENTATIONS OF ZODIAC: f. 13v: Aries. f. 14r: Taurus. f. 15v: Gemini. 17r: Cancer. f. 18r: Leo. f. 19r: Virgo. f. 20r: Libra. f. 21v: Scorpio. f. 22v: Sagittarius. f. 23v: Capricornus. f. 24v: Aquarius. f. 25v: Pisces.

fol. 26v-27r: TEXT ON HEAVENLY BODIES. *Ordo quantitatum corporum... et 60 miliarum.*

BIBLIOTECA AMBROSIANA, T. 47 SUP.

Second half of XV. Humanistic cursive. Parchment. ii + 89 foll. 213 x 135. Leather binding with title: Sacrob. De Spere M.S. Monogram along side: A. Inside binding: *Ex libris Alexandri Petarii in Francorum Curia Consilarii Pauli filii.* 19th century hand above label: *Bibliothecae Ambrosianae pretio librarum VI iii Id. Aug. An. MDCCCXXV Cod. sec. XV in Italia scriptus ut patet an(?) notis in margine regione pictarum imaginum.*

fol. 3r-29v: SACROBOSCO. DE SPHAERA.

f. 3r: Iohannis Anglici de Sacrobosco libellus de spaera incipit feliciter/(T)ractatum de spera quattuor capitulis distinguimus dicentes...

f. 29v: aut mundana machina dissolvitur. Explicit.

USUAL DIAGRAMS.

fol. 29v-47r: PSEUDO-ARISTOTELES. DE MUNDO (trans. NICOLAUS SICULUS, edited in W. L. Lorimer, *Aristoteles Latinus XI*. 1. 2 *De Mundo*, Rome, 1951, pp. 55-78).

f. 29v: (M)ultotiens mihi divina quaedam ac admirabilis quippe res...

f. 47r: felix a principio confestim particeps esset. Explicit de mundo.

foll. 47v-85v: HYGINUS. ASTRONOMICA III-II.

f. 47v: (I)gitur incipiemus a pollo boreo protinus...

f. 85v: deformationem dicere instituimus deo gratias amen.

COLOURED PEN DRAWINGS TO BOOK III WITH STARS INDICATED:

f. 47v: Draco inter arctos. f. 48r: Artophilax. f. 48v: Corona. f. 49r: Engonasin; Lira. f. 49v: Olor. f. 50r: Cepheus; Casiepia. f. 50v: Andromeda. f. 51r: Perseus. f. 51v: Heniocus. f. 52r: Ophiulcus. f. 52v: Sagitta; Aquila. f. 53r: Delphin. f. 53v: Equus. f. 54r: Aries and Deltoton; Taurus. f. 54v: Gemini. f. 55r: Cancer; Leo. f. 55v: Virgo. f. 56r: Scorpius and Libra; Sagittarius. f. 56v: Capricornus. f. 57r: Aquarius. f. 57v: Pisces; Pistrix. f. 58r: Eridanus; Lepus. f. 58v: Orion. f. 59r: Canis; Prochion. f. 59v: Argo. f. 60r: Centaurus; Ara. f. 60v: Hydra, corvus and crater. f. 61r: Piscis.

(For Eridanus (no horns), see Saxl I, pl. III. 6).

foll. 86r-89v: HERMES. CENTILOQUIUM 1-30 imperfect (transl. STEPHANUS DE MESSINA, see Carmody, p. 53).

f. 86r: Iesus Christus (?) Hermetis Centiloquium. (D)ixit hermes quia sol et luna omnium viventium vita est...

f. 89v: ends imperfectly (30): ad omnia erit bona. Si...

BIBLIOTECA TRIVULZIANA, N. 690 (E. 83)

End of XV. Humanistic cursive. North Italian. Paper. ii + 65 foll. (fly leaves are parchment). 235 x 170. Varying number of lines, 25 in Book II. Board and leather binding. On title page name (? of owner): D. Francesco Domenici da Sinalonga. Modern hand inside binding: Vedi Hyginus. Also label of Biblioteca Trivulziana.

G. Porro, *Catalogo dei Codici Manoscritti della Trivulziana*, Turin, 1884, p. 180; C. Santoro, *Mostra di libri di profezie, astrologia, chiromanzia, alchimia*, Milan, 1953, p. 12 no. 14.

foll. 1r-63v: HYGINUS. ASTRONOMICA III-II.

f. 1r: Title page: Igitur incipiens a... Opening adorned by cherub and youth standing by column.

f. 33v: Book III ends: cum piscibus sed est stellarum omnino XII.

f. 34r: Book II opens: Sed quoniam quae nobis de terrae positione...

f. 63v: omnium corporum deformationem dicere instituimus.

PEN DRAWINGS TO BOOK III, WITH STARS INDICATED (being very close in every detail to those in Oxford Can. Misc. 46 (s.c. 19522), for which see Saxl III, pp. 339-40, pl. LXXIX. 203):

f. 2v: Draco inter arctos. f. 3v: Arctophilax. f. 4r: Corona. f. 5r: Engonasin. f. 5v: Lyra. f. 6r: Olor. f. 7r: Cepheus. f. 8r: Cassiopeia. f. 9v: Andromeda. f. 11r: Perseus. f. 12r: Heniochus. f. 13v: Ophiunchus. f. 14v: Sagitta. f. 15r: Aquila. f. 15v: Delphinus. f. 16v: Equus. f. 17v: Aries and Deltoton. f. 18r: Taurus. f. 19r: Gemini. f. 20v: Cancer. f. 21r: Leo. f. 22r: Virgo. f. 22v: Scorpio and Libra. f. 23v: Sagittarius. f. 24r: Capricornus. f. 25r: Aquarius. f. 26r: Pisces. f. 26v: Pistrix. f. 27v: Eridanus. f. 28r: Lepus. f. 29r: Orion. f. 29v: Canis. f. 30r: Procion. f. 30v: Argo. f. 31v: Centaurus. f. 32r: Ara. f. 33r: Draco, corvus and crater. f. 33v: Piscis nothus.

(For Engonasin, see Saxl III, pl. LXXIX. 203)

BIBLIOTECA TRIVULZIANA, N. 735 (C. 52)

XIII. Italian. Parchment. v + 94 foll. 278 x 104. 62-64 lines. Many contemporary glosses in minute script. Leather binding. Fly leaves have notes in 19th century Italian hand on the MS.

G. Porro, *op. cit.*, p. 324.

foll. 1r-40r: OVIDIUS. FASTORUM LIBER.

f. 1r: Incipit primus liber ovidii de fastis. Tempora cum causis latium digesta...

f. 40r: Annuit alcides increpuitque lyram. Explicit VIus liber fastorum deo gratias. Explicit Ovidius fastorum deo gratias: et hy sunt sex libri fastorum, alii sex deficiunt quia non habentur cum beatus Gregorius interdixerit eos eo quod in hiis veneficia tractabantur.

foll. 40v-41v: Pagan calendar for January-June with verses opening "Exoriens chelas aries..." (Bachrens, V, p. 350) and "Grana quanta quinque scripuli..." at top of f. 40v.

ILLUSTRATIONS INCLUDE:

f. 13v: Mars. f. 32v: Taurus. f. 33v: Gemini.

foll. 42r-65v: OVIDIUS. EX PONTO LIBRI.

f. 42r: Incipit liber Ovidii de ponto. Hanc epistolam mittit Breuto./ Naso Tomitanae iam non novus incola terrae...

f. 65v: Non habet in nobis iam nova plaga locum. Explicit liber ovidii de ponto. Publii ovidii nasonis liber de ponto explicit. Verses follow, added: Quingentum levat... Duo quoque mille.

foll. 66r-94r: OVIDIUS. DE TRISTIBUS LIBER.

f. 66r: Incipit primus liber ovidii de tristibus ad librum. Parvus nec invideo sine me liber ibis in urbem . . .

f. 94r: Laudat et ortatu comprobata suo. Explicit liber Ovidii de tristibus. Publii Ovidii Nasonis Tristium liber explicit. Expleto libro sit laus et gloria christi qui dedit expleri det nobis gaudia celi. Added note: Ovidius in exilium missus librum de Tristibus composuit . . . sua bona non perdit. dicit ergo. 4 verses follow: Exul abit sine spe . . . qui patriamque gubernat.

MODENA

BIBLIOTECA ESTENSE, LAT. 209 (α. W. 2. 14)

XV. Lombard. Parchment. 1 quire of 16. 245 x 170. A picture book made for the Sforza-Visconti family, whose arms appear on f. 4v. Mlle Pellegrin suggests that the book was possibly made for Duke Francesco (+ 1416) and was brought to Ferrara by Anna Sforza (+ 1497) on her marriage to Alphonso I Este in 1491.

E. Pellegrin, *La Bibliothèque des Visconti et des Sforza, Ducs de Milan, au XV^e siècle* (Publications de l'Institut de Recherche et d'Histoire des Textes, V) Paris, 1955, p. 384; S. Samek Ludovici, *Il "De Sphaera" Estense e Piconografia astrologica*, Milan, 1958, where a more extensive bibliography is given; P. Pu-liatti, *Il Libro illustrato dal XIV al XVIII secolo nella Bibl. Estense di Modena*, Modena, 1961, pp. 21-2, Pl. V.

foll. 1r-15r: "DE SPHAERA", made up of diagrams illustrating Ptolemaic system of world and of coloured pictures of Planets and the occupations of their children.

f. 1r: DIAGRAMS (i) Circulus sensibilis.
(ii) Different aspects of Moon in relation to Sun and Earth.

(iii) Planetary movements.

f. 1v: DIAGRAMS (i) Spheres of elements, planets, stars and primum mobile.

(ii) Movements of planets.

(iii) Orbits of Sun and Moon round the earth.

f. 2r: DIAGRAMS (i) Fifth essence.

(ii) Earth and the firmament.

(iii) Apparent size of sun to observer.

f. 2v: DIAGRAMS (i) Eclipses of the moon.

(ii) Ptolemaic demonstration of the roundness of the earth.

(iii) Diagrammatic explanation of this.

- f. 3r: DIAGRAMS (i) Eccentric arcs and centres.
 (ii) Eclipses of sun and moon.
 (iii) Climates.
 (iv) Movements of planets.

f. 3v: Table of Climates and numerical constants.

f. 4v: Arms of Sforza-Visconti family.

COLOURED PICTURES: f. 5v: Saturn and occupations. f. 6r: Occupations under Saturn. f. 6v: Jupiter and occupations. f. 7r: Occupations under Jupiter. f. 7v: Mars and occupations. f. 8r: Occupations under Mars. f. 8v: Sol and occupations. f. 9r: Occupations under Sol. f. 9v: Venus and occupations. f. 10r: Occupations under Venus. f. 10v: Mercury and occupations. f. 11r: Occupations under Mercury. f. 11v: Luna and occupations. f. 12r: Occupations under Luna.

fol. 12v-13r: Blank.

f. 13v: Rota of months, zodiac signs and sexes.

f. 14r: Schema of elements and qualities. f. 14v: Schemata of Harmony of Year; Phases of the moon. f. 15r: Solsticial and equinoctial circles.

BIBLIOTECA ESTENSE, LAT. 697 (α. W. 8. 20)

First half of XV. *Littera bastarda*. Paper. 35 foll. (f. i + folio after f. 35 parchment fly leaves). 298 x 215. 33 long lines. Board binding.

H. J. Hermann, "Zur Gesch. d. Miniaturmalerei am Hofe der Este in Ferrara", *Jahrbuch d. Allerb. Kaiserb.*, XXI, 1900, pp. 135-37; A. Venturi, "La fonte di una composizione del Guariento", *L'Arte*, xvii, 1914, pp. 49-57, figs. 2, 4, 6, 8, 10, 12, 14; F. Saxl, "Rinascimento dell'antichità", *Rep. für Kunstwissenschaft*, XLIII, 1922, p. 245.

fol. 1r-1v: VERSES DE ANNOALIBUS (T-K 1449).

f. 1r: Red: Isti sunt versus de annoalibus/Die dominica/Ordinary colour: Si fuerint kalende Januarii in die dominico hiems bona est...

f. 1v: cremabuntur. Apes morientur.

fol. 1v-2v: VERSUS SIBILLE DE ANNOALIBUS.

f. 1v: Red: Incipiunt versus sibille de annoalibus/Ordinary colour: Ut lector noscat quod tempus duxerit annus...

f. 2v: Aspicient orbi mors magna senes superabit.

f. 2v: VERSES ON SEASONS. *Hec sunt quatuor partes anni./Ver estas autumnus et hiems in/quibus homo potes cognoscere quae tempora imitantur/illo anno et primo Ver./Sol in primo gradu piscis incipit. . . vel malus sic erit totius hiems.*

foll. 3r-8v: DESCRIPTION OF BIRTHS UNDER ZODIAC SIGNS (? T-K 905).

f. 3r: Title: Mars. Aries. Script: *Natus sub ariete a medio marcii usque ad medium aprilis erit magne industrie . . .* f. 8v: *Dies martis saturni sunt mali.*

ILLUSTRATIONS:

f. 3r: In medallion at top: Aries. At foot of page three figures: left, warrior in armour with sword pointing right; centre, warrior on horse-back (Mars) riding to left, rays marking Scorpio and Aries; right, seated girl. (Subsequent descriptions in order and position shown). f. 3v: Taurus; youth with flower facing right; Venus with long hair looking at her reflection in a mirror held in hand, facing left, rays marking Libra and Aries; standing girl. f. 4r: Gemini; young man with book facing right; old scholar at desk (Mercury) holding astrolabe, rays marking faces; seated girl. f. 4v: Cancer; young ploughman; Luna on cart, ray above marking Cancer; young woman pulling small cart. f. 5r: Leo; Youth; Sol, on wheeled throne, ray marking Leo; young woman with shears and rope (?). f. 5v: Virgo; young boy with an open book; scholar (Mercury) giving out books, rays marking faces of planets; girl with spindle and quill. f. 6r: Libra; young man with lyre; naked woman (Venus) with mirror in right hand, and girdle in left, rays marking Taurus and Libra; young woman. f. 6v: Scorpius; young warrior in armour; warrior with sceptre and castle (Mars), seated, rays marking Scorpius and Aries; young woman with girdle (?). f. 7r: Sagittarius; young man at desk, reading book; Jupiter as king, enthroned on two eagles, rays marking Sagittarius and Pisces; young woman seated with beads. f. 7v: Capricornus; aged man; Saturn leaning on a staff rays marking Capricornus and Aquarius; woman stirring a fire. f. 8r: Aquarius; young man on crutch; crowned Saturn, holding standard, rays marking Capricornus and Aquarius; woman with purse. f. 8v: Pisces; youth and young woman on either side of Jupiter.

f. 9r: RATIO SPERE PHITAGORE. *Ratio spere phitagore philosophi quam Appolonius descripsit de quacumque scire vulerit vel consulere ut pote de egris. . . propositam domino concedente et cetera.* Schema illustrating this (T-K 1315 cites many MSS. but text is not identical).

foll. 9v-18v: NOTES ON SIGNS OF ZODIAC AND PLANETS.

f. 9v: Numbers 1 2 8 4 5 8 3 8 1 0 8 6 4 2 6 2 8 8 6 9 6 6 10 1
A B C D E F G H I L K L M N O P Q R S T U X Y Z

Per alfabetum arabicum computa nomen viri et mulieris et matris eius...

f. 18v: ad vendendum.

foll. 18v-24r: LIBER GENESALIS.

f. 18v: Red: Incipit Liber Genesalis. Ianuarius. Ordinary colour: Mense Ianuarii signum aquarii...

f. 24r: novam induat.

foll. 24r-24v: DIES INFELICES (? T-K 795).

f. 24r: Red: Dies infelices. Ordinary colour: Isti sunt dies infelices et periculosi...

f. 24v: Par mulier morietur si impar vir.

foll. 24v-27r: DANIEL.

f. 24v: Incipit Sopniale Danielis prophete. Luna prima quicquid sopniarent...

f. 27r: tribus temporibus fidem.

foll. 27r-27v: PETRUS DE ABANO. DE REGIMINE SANITATIS.

f. 27r: Red: Ordo compositus a magistro Petro de Abano de regimine sanitatis tenendiis in cuiuslibet mensis anni circuitu et de quibus rebus humana corpora uti debeant declaratur prout scriptum est. Ianuarius. Brown: Mensis Ianuarii est inimicus flobothomie...

f. 27v: nec infirmitate aliqua patieris.

f. 28r: MEDICINA PESTIS OPTIMA. Red: Medicina pestis optima. Brown: Cum cito sentitur morbus subito fiat... vulnus ubi erit et cetera.

foll. 28v-29r: HORE DIERUM.

f. 28v: Red: Hore Dierum. Brown. Dominica. Venus.

f. 29r: List for Saturday ends with: Mars. red: expliciunt hore dierum.

foll. 29v-30v: NOTES ON MOON.

f. 29v: Luna prima factus est adam dies bonus in omnibus vendere..

f. 30v: dies bona in omnibus (alphabet follows).

f. 31r: Per XII tabulas ante scriptas potest scire qua die hora . . . Sabaoth in lingua hebraica.

fol. 31r-34r: TABLES FOR MONTHS.

f. 31r: Januarius hore et puncti./M A V MV Q 6 XVIII DCTVI..

f. 34r: C G X DCCC XL III (for December)

fol. 34v, 35, 36: Blank.

MONTE CASSINO

ARCHIVIO DELLA BADIA, 3

A. D. 874 — 892. Monte Cassino. Described in *Bibliotheca Casinensis seu codicum manuscriptorum qui in tabulario Casinensi asservantur series*, I, Monte Cassino, 1874; M. Inguanez, *Codicum Casinensium Manuscriptorum Catalogus*, I, Monte Cassino, 1915, pp. 6-8; see also E. A. Lowe, *Scriptura Beneventana*, Oxford, 1929, pl. XXIV.

PEN DRAWINGS found in text on pages 177-192.

Pages 177-192: PSEUDO-BEDA. DE SIGNIS CAELI (Maass, 582-601).

p. 177: Helix arcturus maior habet autem in capite stellas obscuras..

p. 192: quod contrarius sit cani.

PEN DRAWINGS:

p. 177: Helix; Fenix; Draco inter arctos. p. 178: Erculus; Corona. p. 179: Serpentarius on Scorpio; Scorpio; Bootes. p. 180: Virgo and Libra; Gemini. p. 181: Cancer; Leo; Agitator. p. 182: Taurus; Cepheus. p. 183: Cassiopeia; Andromeda. p. 184: Equus; Aries; Triangulus. p. 185: Pisces; Perseus. p. 186: Lira; Cignus. p. 187: Aquarius; Capricornus; Sagittarius. p. 188: Aquila; Delfinus; Orion. p. 189: Canicula; Lepus; Navis. p. 190: Cetus; Eurus. p. 191: Piscis magnus; Sacrarium. p. 192: Centaurus; Hydra, corvus and crater; Anticanis. (For Serpentarius on Scorpio, see Saxl I, pl. VI. 12; Gemini, I, pl. VI. 13; Cassiopeia, *Bibl. Casin.*, pl. II; Orion, I, pl. VIII. 16).

ARCHIVIO DELLA BADIA, 132

Ante A. D. 1023. Monte Cassino. Described in M. Inguanez, *op. cit.*, p. 212; see also A. Amelli, *Miniature sacre e profane dell'anno 1023 illustranti l'Enciclopedia medioevale di Rabano Mauro*, Monte Cassino, 1896; E. A. Lowe, *Beneventan Script*, Oxford, 1914, passim; id., *Scriptura Beneventana*, Oxford, 1929, pl. 59.

pp. 1-530: RABANUS MAURUS. DE UNIVERSO I-XXII.

p. 1-2: Index to Books xx-xxii.

p. 3: In nomine domini incipit liber primus. Rabani de originibus rerum.

p. 530: interdum per cura (PL 111, 613, line 8).

AMONG NUMEROUS ILLUSTRATIONS:

p. 233 (238): Busts of Sun and Moon at centre of rota showing signs of zodiac. p. 237 (242): Sol and Chariot. p. 238 (243): Luna and Chariot. p. 268 (273): Rota illustrating the year with zodiac signs. pp. 383 (388) —389 (394): Representations of gods.

MONZA

BIBLIOTECA CAPITOLARE, B. 24/163 (228)

XII. Parchment. iv + 67 foll. (all unnumbered). 223 x 175. 31 long lines. Last folio not an insertion, but part of quire of 12 of which second leaf is missing. Leather binding.

A. F. Frisi, *Memorie storiche di Monza e sua corte*, 3, Milan, 1794, no. CCXXVIII, p. 233.

foll. 1r-66v: BOETHIUS. IN TOPICA CICERONIS.

f. 1r: Red rustics: Anicii M. Ser. Boetii. Canc. et ex Consul. Ord. Patritii in topica Ciceronis Commentarii liber primus incipit. Ordinary script: Exhortatione tua mihi patricii...

f. 66v: Ends imperfectly (PL 64, 1169): fortuitarum rerum...

PEN ILLUSTRATION (reproduced in *Storia di Milano*, III, 1954, p. 692): f. 67r: Northern Heavenly Sky.

BIBLIOTECA CAPITOLARE, F. 9/176 (CCXLVI)

Late IX (? post 867). ? Lobbes. iii + 98 foll. 345 x 250. 30-31 long lines. 19th century leather binding. Bears stamp of French Republic. The annals in this MS. — *Annales Laubacenses* — were published by Pertz in 1826 and were similar to those in a MS. at Verona, the annals of which were published in 1762 by Zaccaria. Varisco was the first to show that the Monza and Verona MSS. were the same and that the Verona MS., known to Zaccaria, and having been taken by the French, was returned to Monza by mistake after the Napoleonic Wars. The MS. was not described by Frisi and was not in Monza before the French Revolutionary Wars. Its annals have long been known, but Koehler was the first to draw attention to its membership of the 810 astronomical text book group. On f. ii in modern hand: Venerabilis Bedae De ratione temporum codex in figuris anno Christi noti 912 minime posterior. Pen trials on f. Av. A 17th century hand (not Maffei's ?) wrote on f. 1r: Beda presbiteri de natura rerum, and at side of page: Bedae Praesbiteri pulcherrimus

codex peractus (?) et completus anno circiter millesimo sexagesimo quarto ut ex quinquagesimo sexto cyclo decem novennali colligitur.

MGH, Script., I, 1826, pp. 4-15; Pertz, *Archiv der Gesellschaft*, V, 1824; F. A. Zaccaria, *Ier Litterarium*, Venice, 1762, pp. 220-26; P. D. Achille Varisco, "Di un codice insigne che si credeva perduto e che invece fortunatamente si conserva nell'archivio capitolare della Basilica di Monza", *Reale Istituto Lombardo di Scienze e Lettere Rendiconti*, XXIX, 1896, pp. 667-77; *Storia di Milano*, III, 1954, plates between pp. 674-75, 704-05; Koehler, *op. cit.*, p. 121.

f. 1v: Obits noted in late 10th century hand: VI Kl. Jun. obiit Egil Archiepiscopus, VIII Kl. Ags. obiit Ricuinus, V Kl. Sept. Obiit Adelhelmus, XIII Kl. Sept. obiit Adelhelmus, XIII Kl. Apl. obiit filius eius Adelhelmus, III Id. Marc. obiit Wido filius eius, Id. Octb. obit Iremberga, III Id. Ags. obiit Wandilmodis, XVII Kl. Mai Obiit Himiltrudis. In 12th century hand, poem on Frederick Barbarossa: Anno milleno centeno terque triceno... rex suscipe (replaced by collocet) ipse fidelis (not MGH, Script., IX, 724). In left margin in red: Herman VII†. At bottom in later (11th century?) hand VI Kl. Iun. Obiit Egila.

fol. 2r-4v: Chronicle (published separately and independently by Zaccaria and Pertz). Begins with entry for year 709: Hiemps dura druogo mortuus. Twelfth century hand, which wrote poem on Frederick Barbarossa, added: Anno dominicae incarnationis MCLXXXV VIII Kl. Novb. Basiliensis ecclesia incendio conflagravit.

f. 5r: Diagram showing parts of year.

f. 5v: Numbers and their alphabetical equivalents.

f. 6r-6v: Various verses relating to months and zodiac signs:

1. Septimber semper quinis october abenis (sic)...Alti vago rutilans transcurrit culmina caeli (Van Wijk, pp. 119-20).
2. De Duodecim Signis.
Primus adest aries obscuro lumine labens... Exii squamiferi serpentes ludere pisces. (PL 94, 638).
3. Bissena mensum vertigine volvitur annus... per nonas idus decurrens atque kalendas (Bachrens, V, pp. 352-53).
4. Festo passim sanctorum inscripta leguntur. Sub certis quae sunt anni celebranda diebus. Prima dies Jani est qua circumdatur Agnus... Silvestrem pridie celebramus ab orbe colendum (PL 94, 603).

fol. 7r-8v: Chapter List to the seven books of the compilation. List identical with that in Reg. lat. 309, published in Saxl I, pp. 60-62.

- f. 7r: Liber Primus. I Rota que continet in natalicia sanctorum...
- f. 8v: Liber Septimus. Item liber cum capitulis suis Bedae praesbiteri continens de rerum naturis. Below in same or contemporary hand note on the moon: Globus lunae comparatus globo terrae... id est defectum (Identical text in Kassel Astron., fol. 2, f. 8v published in Jones, II, pp. 361-2).
- f. 9r: Rota Sanctorum (similar to that in Reg. Lat. 309 described in A. Wilmart, *Codices Regenses Latini*, II, Vatican, 1945, p. 161). Includes XIII Kl. aprl. Depositio Domni Chutberti, VIII Kl. Mai. Deposicio Sanctorum Wilfridi et Egberti, Non. ags. Nat. Sancti Oswaldi Regis, XVI Kl. Aprl. Nat. Sancti Patritii Episcopi.
- f. 9v: Hand of f. 8v note wrote: Nonas aprilis norunt quinos... constant tribus adeptae III (Strecker, p. 670). Two further notes on Paschal Terms: 1. X Kl. aprl. incium primi mensis nativitas lunae XIII... VII. Id. pascha. 2. Si vis invenire terminum paschalem hoc est luna XIII... VII evenit VII erit.
- f. 10r-10v: De lunari circuitu si quis computari non didicit (DTR 19 almost). Si quis calculandi minus... observatione traditum.
- f. 10v: De aetate lunae si quis computari non potest (DTR 23). Quod si adeo quisque... providit antiquitas. Amen.
- f. 11r: Cursus Lunae per duodecim signa (DTR 19) Anno 1... Apr. foll. 11v-17r: Calendar, basically similar to that in Madrid 3307 (including Arnulf of Metz) and with many additions, including those persons mentioned on f. 1v.
- f. 17v: Addition: Ciclus lunaris decem et novem annorum per duodecim kalendas (Table often appended to DTR 20, see Jones, II, p. 356).
- foll. 18r-31v: Nineteen year cycles, with entries in margin, including under A.D. 707 "Hildufus dux obiit requiescit in laubaco monasterio". Last year dated 1064. Last annal 912.
- foll. 32r-33v: Aabbreviatio Chronicae ubi mittenda sit. Adam cum esset centum... Sunt autem tocius summae ab origine mundi annisque in praesentem annum $\overline{\text{M}}\text{III DCCCXX}$ (= ? 867).
- foll. 34r-35v: Incipit de ortu et obitu patrum (Abridgement of Isidore, PL 83, 131-156: found in Flor., pp. 93-6). Adam pater generis humani... ibidem requiescit in pace.
- f. 35v: De generi numerorum in ratiocinatione (? Flor. 89). Cardinales sunt numeri... dupliciter tripliciter.
- f. 36r: Blank

fol. 36v-37r: Easter Table: *Terminus Pascas Concurrentes Septimane Dies per quintos triginta duos annos*. Lines below table, which is set across two pages, begin: *Ab adam usque ad nativitatem domini...* (Flor. 69 foll.) ... *et concurrentes VII*.

fol. 37v-38r: *Ratio quomodo feria qua Dominus passus est invenitur*. (Flor. 69). *Prima dies saeculi creditur fuisse... sacra testatur historia*.

f. 38r-39r: *Ebdomadibus Septuaginta Prophetis* (DTR 9). *Septima species ebdomadis ... sequendum putaverit eligat*.

fol. 39v-40r: Text at top, tables at bottom. Text (PL 90, 750): *Quomodo in primo decennovenalis cycli anno in kalendis ... nullum alium affert errorem*. Tables of Easter Moons (PL 90, 750-1).

fol. 40v-41r: Text at top, tables at bottom. Text (PL 90, 751): *Primo decennovenalis cycli anno quando nulla epacta... efficit multiplicatus*. Table = adaptation of PL 90, 750-1.

f. 41v: *Argumentum ad annos ab inicio mundi inveniendos* (Flor. 70b, 74b). *Si scire cupis annos ab inicio (sic) mundi sine errore reperies*.

f. 41v: *Argumentum ad inveniendum annum cycli decennovenalis per eosdem annos* (Flor. 70b). *Si nosse desideras quotus sit annus in cyclo decennovenali ... super fuerit XVIII annus cycli decennovenalis erit*.

f. 41v: *Argumentum ad indiccionem inveniendam* (Flor. 70b). *Si vis scire quota sit indictio tene annos ab inicio mundi... si nihil remanserit XV erit*.

f. 41v: *Argumentum ad epactam inveniendam* (Flor. 70b). *Si nosse vis quota sit epacta collige annos ... si nihil remanserit nulla erit*.

f. 41v: *Argumentum ad concurrentes inveniendos* (? PL 90, 177d). *Si concurrentes invenire cupis sume annos ab origine mundi ... si nihil remanserit VII erit*.

f. 41v: *Argumentum qualiter cyclus lune invenire debeat* (Flor. 70b). *Si cyclum lunae invenire ... si nihil remanserit XVIII erit*.

f. 42r: *Argumentum ad annos domini inveniendos*. *Si vis scire quod anni sunt ab incarnatione domini multiplica quindecies ... fiunt simul DCCCVIII isti sunt anni ab incarnatione domini*.

f. 42r: *Argumentum ad inveniendum annum cycli decennovenalis*. *Si nosse vis quotus sit annus cycli ... est annus cycli decennovenalis*.

f. 42r: *Argumentum ad indictionem inveniendam*. *Si scire cupis quota*

sit indictio sume annos domini DCCCVIII ... duo secunda est anni praesentis indictio.

f. 42r: Item argumentum ad epactum inveniendam. Si autem vis cognoscere quot sint epactae ... in praesenti anno epacta.

f. 42r: Item argumentum ad concurrentes inveniendos. Si vis scire concurrentes septimane dies ... aliquid quia septem sunt concurrentes.

f. 42r: Item argumentum qualiter cyclus lunae inveniri debeat. Si nosse cupis cyclus lunaris ... annus qui nunc agitur.

fol. 42v-44r: Ratio calculi per quam numerus in argumentis conpendiose partitur. Division Table for numbers from II to XXX follows.

f. 44v: De kalendis novis (sic) et idibus ac diebus duodecim mensium (PL 129, 1281). Ianuarius Augustus et December IIII nonas habent ... omnes menses VIII idus habent.

f. 44v: Concurrentes et epactae cum suis regularibus ad inveniendas ferias et luna kalendarum (partly PL 90, 706b). 1. Nulla regulares ad sol... BVII Ags. XIII.

f. 44v: Argumentum ad inveniendos regulares ferias kalendarum (Flor 73-74a). Annus solaris habet dies CCCLXV... mensis regularis procreabitur.

fol. 44v-45r: Argumentum ad inveniendos regulares lunae kalendarum. Quinque residuos aegyptiorum dies de quibus superius ... regularis mensis sequentis.

f. 45r: De diebus anni per kalendas nonas et idus. (DTR 22. 17-29). Ian. in Kl. 1 ... In Id. CCCXLVII.

f. 45r: Excerptum de circulo quod dies habeat annus per dies ebdomadarum (Similar to PL 90, 707c). Seven times table follows.

f. 45r: Terminus Quadragesimae (in part PL 90, 715-6). Table for Quadragesima, Easter and Rogations.

f. 45r: Item ex calculo ad lunam inveniendam secundum Victorium (PL 90, 714).

f. 45v: Qualiter Latini et Greci dissentiant in XIII luna paschae (based on PL 90, 712 and Easter lists).

f. 46r: Book III Chapter 1 (Flor. 90-91, PL 129, 1349-50) begins imperfectly: Cum dicis XX summitatem pollicis ... aures retro respicientes.

f. 46v: De anno et partibus eius (Flor. 88b-89a). Annus solaris habet quattuor tempora menses XII ... habet ostentum .1. et dimidium.

f. 46v: Quod atomos habet annus vel partes eius. Ostentum habet atomos CCCLXXVI... VIII DCXL partes proprias CCCLX.

f. 47r: Quod modis soleat annus nominari (Flor. 80b-81b). Primus modus est de luna . . . annis impletur.

fol. 47r-48r: De mundano anno qui quindecim milibus solarium conficitur annorum Tullii Ciceroni Somnium Scitionis dictantis et Macrobius id est exponentis ac Senecae philosophorum auctoritas. (Macrobius, *In Somnium Scipionis*, II. xi. 51-2). Annus nonus solus est . . . in digitos mittit inveniet.

f. 48r: De ratione bissexti (DTR 38. 12-27). Bissexthus igitur ex quadrantis ratione . . . interkalare consuerunt.

fol. 48r-48v: De mensura crementi bissextilis (DTR 39, lines 1-10). Sed et de mensura crementi bissextilis nec . . . unius horae percurrere (sic).

f. 48v: De bissextilibus diebus unus annus ad crescat (Flor. 72, PL 90, 357). In quatuor annis unus dies in octo . . . dies esse probantur.

fol. 48v-50r: Qualiter per quattuor annos bissextus ad crescat (Jones, II, p. 372). Primo igitur anno praeparationis bissexti prima hora noctis . . . arietem possit ingredi.

f. 50v: Anni ab incarnatione domini anno praesenti sunt DCCXCIII subtrahe ex his DCCLXXX et remanent XIII . . . kl. mart. habet.

f. 50v: Argumentum ad quamlibet feriam inveniendam (Flor. 83b.). Si cognoscere cupis hoc vel illo die . . . quaeris ostendit.

f. 50v: Item aliud argumentum ad inveniendam feriam (Flor. 83a). Si vis scire quota sit feria . . . et si nihil remanet sabbatum est.

f. 50v: Argumentum ad feriam kalendarum ianuariarum inveniendam (Flor. 83a). Si scire vis per singulos annos quota feria sit . . . et tunc dili. . . (ends imperfectly, a leaf being missing after f. 50).

f. 51r: Book IV Chap. 2 begins imperfectly (Flor. 86a, all texts down to f. 51v taken from Flor. 86a-87a): remanserit ipsa est aetas lune si nihil remanserit xxxma erit.

f. 51r: Argumentum quota sit luna in kalendis ianuarii. Si hoc scire desideras sume cyclum anni presentis multiplica . . . sed duos addicere regulares.

f. 51r: Item argumentum de qualibet lunae aetate. Si ergo vis scire hoc vel illo die . . . est luna diei quam queris.

f. 51r: Argumentum quot horas luceat luna. Si nosse vis quot horas luceat luna quolibet . . . detrahare debes.

fol. 51r-51v: Argumentum quot partes distet a sole. Si scire cupis luna prima quantas partes distat . . . et quinque puncti horam faciunt.

f. 51v: De Saltu Lunae (PL 90, 472-3, slightly adapted). Si vis scire unde saltus lune ad crescat ... cycli decennovenalis transilitur.

foll. 51v-52r: Item de saltu lunae (Flor. 70). In cyclo decennovenali sunt anni lunares XVIII ... et haec transilicio saltus appellatur.

foll. 52r-52v: Item de saltu lunae (DTR 42). De quo tamen saltu verisimile ... computare dierum.

f. 52v: In quot annis per saltum lune unus annus subtrahatur. Item de saltu lunae XVIII anni ... per diem efficiunt.

foll. 52v-53r: Quot et luna quadrantem habeat (DTR 41). Inter haec autem meminisse debet ... quaeat obsistit.

foll. 53r-53v: Cur argumentum lunae kalendarum per omnes annos circuli decennovenalis stabilitatem suam servare non possit (DTR 20, lines 2-55). Sunt autem anni tres circuli decennovenalis in quibus ... atque intemerato ordine procurrat.

f. 53v: Ratio XIII lunae paschalis inveniende (partly PL 90, 709). Est etiam ratio qualiter terminus paschalis ... ipso mense habebis terminum.

foll. 53v-54r: Item de eadem re (Flor. 82, 85). Sed et hoc sciendum est ut quot dies ... initium quadragesimae habebis.

f. 54r: Item de adem (sic) re (Flor. 85). Quantos dies ante kalendas aprilis habueris ... habebis initium quadragesimae.

f. 54r: Item de adem (sic) re. Quota luna in kalendis ianuarii eodem anno fuerit ... errore sublato reperies.

f. 54r: Item de adem (sic) re (PL 129, 1284). Sanctae memorie Theophilus Alexandrinus ... sine dubio celebrare conscripsit.

foll. 54r-54v: Item de adem (sic) re. Quaerenda est nativitas lunae XIII mae ab octave ... nullatenus celebrabis.

foll. 54v-55v: Quota feria singulis annis XIIIa luna paschae occurrat (Jones, I, pp. 104-108). Primo anno circuli decennovenalis xxx luna in ... lune aetatem citissime invenies.

f. 55v: Cur XIII luna paschalis intraxii Kl. aprilis et XIII Kl. maii in quibusdam locis evenire non possit (PL 90, 499, Jones, I, p. 33). Constat igitur quod primo anno ... ordine cuncta proveniant.

foll. 55v-56v: Quomodo errent quidam in primi mensis (sic) inicio (DTR 51). Sed error eorum qui aliter sapiunt ... occasionem prave persuasionis amittat.

f. 56v: Ratio contra eos qui dicunt VII Kl. Maii Pascha fieri non posse. Anno XIII ante nativitatem domini ... neque in ea luna XIIIma.

foll. 56v-57r: Quantum spacium moretur sol vel luna in una qualibet de triginta partibus signis cuiuslibet (Alcuin PL 101, 983). Sol tarditates . . . et viginti et uno ostentis.

f. 57r: De concordia solaris cursus et lunaris. Nunc (sic) horis in luna . . . diebus solaribus concordare.

f. 57r: Item de eadem ratione. Lunam lucere dotrantis (?) . . . quattuor horas lucet luna quinta.

foll. 57r-57v: De concordia maris et lune (Jones I 44, PL 90 605). Unius semper hore . . . tardius que recederet.

f. 57v: De effectiva lunae potentia (DTR 28). Effectiva lunae potentie ut ait beatus Ambrosius . . . turbinibus adlatura.

f. 58r: Coloured sphere: names of zodiac signs written on border, moons in centre.

f. 58v: Blank.

f. 59r: De Horologio (PL 90, 954). Ianuarius et December hora prima . . . hora VI pedes III.

f. 59v: Argumentum quot horas luna in II I . . . VIII I. Si vis scire quot horas luna in unaquaque lucet . . . descendit computandi.

f. 59v: Expositio de eadem re. Traditur autem secundum quosdam argumentum . . . pro II quadrante pro I.

foll. 60r-61r: Excerptum de astrologia (Maass, 309-312). Duo sunt extremi vertices mundi quos appellant polos . . . usque decurrit accipiens.

foll. 61r-69v: De ordine ac positione stellarum in signis (Pseudo-Bedan Catalogue of Stars, Kauffmann LXXII-LXXVIII, PL 90, 945-8):

Est quidem hic ordo et positio siderum . . . anticanis habet stellas III.

COLOURED ILLUSTRATIONS (very close to Madrid 3307 for which see Koehler, *op. cit.*, p. 121 and Neuss articles cited on p. xv):

f. 61v: Arcturus maior; Arcturus minor; Serpens. f. 62r: Hercules; Corona. f. 62v: Serpentarius; Scorpius. f. 63r: Bootes; Virgo (Plate II b). f. 63v: Gemini; Cancer (with aselli). f. 64r: Leo; Agitator. f. 64v: Taurus; Cepheus; Cassiopeia. f. 65r: Andromeda; Pegasus. f. 65v: Aries; Triangulus; Pisces. f. 66r: Perseus; Lyra; Cignus (Plate IX a). f. 66v: Aquarius; Capricornus (Plate IXb). f. 67r: Sagittarius; Aquila; Delphinus. f. 67v: Orion; Canis. f. 68r: Lepus; Navis; Coetus. f. 68v: Eridanus; Piscis magnus; Ara. f. 69r: Centaurus; Hydra, corvus and crater. f. 69v: Corvus; Crater; Anticanis.

(See Neuss, *op. cit.*, for comparable illustrations).

foll. 69v-70v: De positione et cursus septem planetarum (Pliny, II, 12, Rück, pp. 34-36). Inter caelum et terram certis discreta . . . ad easdem vices exit. (Diagram of spheres of planets).

foll. 70v-71r: De intervallis earum (Pliny, II, 83-4, Rück, pp. 36-7). Intervalla eorum a terra . . . armoniam vocant. (Diagram of planetary distances from earth).

foll. 71v-72v: De absidibus earum (Pliny, II, 59-61, 69-70, 63-4, Rück, pp. 37-40). Tres autem quas supra solem diximus . . . ut subiecta figura demonstrat. Rota for apsides on f. 72v.

foll. 72v-74r: De cursu earum per zodiacum circulum (Pliny, II, 62, 66, 67, 68-9, 71, 75-8, 80, 78-9, 76-7, Rück, pp. 40-3). Cur autem magnitudines suas et colores mutant . . . maximae inobservabilis est cursus. (Diagram on f. 73r.)

f. 74r: De interlunio (Flor. 80a). Interlunium lunae est tempus . . . ab eo recedendo videtur.

f. 74r: De eclypsi lunae (Flor. 80a). Eclipsis lunae est quotiens in umbram terrae . . . et noctes aequales existerent.

foll. 74r-74v: De eclypsi solis (Flor. 80a). Eclipsis solis est quotiens luna . . . illi orbis lunae opponitur.

f. 74v: De solis eclypsi quando visa sit. Anno dominice incarnationis DCCLX facta est eclipsis solis . . . VIIa in XXVIII parte tauri (Eclipses for 790-812).

foll. 74v-75r: Dimensio celestium spatiorum secundum quosdam (T-K 5). A terra ad lunam tonum esse . . . CVIII et CCCLXXV.

foll. 75r-77r: De praesagiis tempestatum (Thorndike, III, pp. 708-14, Pliny, XVIII, 340-65, Rück, pp. 44-50). Et enim praedictis . . . diras tempestates pronuntiant.

f. 77r: De Ratione unciarum (partly PL 90, 699). Scripulus sex siliquae . . . duodecim untiae.

foll. 77r-77v: De probatione auri et argenti (Vitruvius, ed. V. Rose, 28). Omne aurum purum cuiuslibet . . . huius fronte praefixum est.

foll. 77v-78r: De mensura caerae et metalli in operibus fisilibus (id. 29). In fundendis operibus cuius ponderis . . . et denarii XVI.

foll. 78r-78v: Ambrosii Macrobbii Theodosii de mensura et magnitudine terrae et circuli per quem solis iter est (Macrobius, *In Somnium Scipionis*, I, XX, 14-24). In omni orbe vel sphaera . . . centum LXX milia.

foll. 78v-79v: Item eiusdem de mensura et magnitudine solis (id. I, XX, 25-32). His dictis quibus mensura . . . terra esse maiorem.

foll. 79v-80r: Felicis Capelle de mensura lunae (Expansion of Mart. Cap., *De nupt.*, VIII, 60). Luna item circuli sui . . . maiorem esse tellure.

f. 80r: Eiusdem argumentum quo magnitudo terrae deprachensa est (Expansion of id., VI, 595-98). Eratostenes philosophus idemque . . . dimensionem admittit.

foll. 80r-81r: De mensuris in ponderibus (Isidore, *Etym.* XVI. 25). Mensura est iuxta isidorum quicquid pondere . . . unam restam efficiunt.

foll. 81r-81v: De ponderibus (Fr. Hultsch, *Metrologicorum Scriptorum Reliquiae*, II, Leipzig, 1866, pp. 138-40). Ponderum pars minima calculus est . . . quod centum libris constet.

foll. 81v-82r: De mensuris in liquidis (Hultsch, *op. cit.*, pp. 140-142). Mensurarum in liquidis . . . quod sunt modia LX.

f. 82v: Blank.

f. 83r: Bede, *De Natura Rerum*: Versus Baedae Presbitaeri. Naturas rerum varias . . . qui legis astra super mentem tuere diem.

foll. 83r-83v: Chapter list. Capitula libri de naturis rerum 1. De quadrifario dei opere . . . LII Divisio terrae. Expliciunt capitula libri de Naturis Rerum.

foll. 84r-92v: Text. De Quadrifario dei operi. Operatio divina quae saecula creavit . . . usque ad occidentem extenditur. Explicit liber de naturis rerum.

f. 93r: Blank.

foll. 93v-94r: Two Tables entitled: Hic Cyclus Decennovenalis subscriptus continent ab incarnatione domini usque in quemlibet annum futurum dies LXXXLMI.

foll. 95r-96r: (*Notae Laterculae*, see H. Keil, *Grammatici Latini*, IV, Leipzig, 1864, pp. 303-13). Incipiunt notae. Aug. Augustus . . . sententiam dat.

foll. 96v-98r: Incipiunt dies egipciaci quos in anni circulo maledicti sunt et emisit deus sine misericordia. Quod debet unusquisque . . . et cadere.

f. 98r: Additions: 1. 10th century hands: Dicit dominus mulieri cananee . . . sicut pecisti. 2. 12th century hand of foll. 1v and 4v: Vir fuit inops consilii . . . de vitio omnes.

foll. 98v-99r: Pen trials.

NAPLES

BIBLIOTECA NAZIONALE, IV F. 3

XIII. Beneventan. 201 foll. Parchment. 280 x 170. 30 long lines. Pigskin binding. 16th century hand adds: Antonio Seripandi ex Anysii amici opt. munere. Belonged to Parrasio Prodiene of monastery of San Giovanni a Carbonara.

F. Munari, *Catalogue of the MSS of Ovid's Metamorphoses* (University of London Institute of Classical Studies in conjunction with the Warburg Institute, Bulletin Supplement No. 4, 1957), p. 44, no. 206 gives bibliography.

foll. 1r-1v: CAPITULA FOR OVID: METAMORPHOSES I (added 15th century hand):

f. 1r: Narracio Ovidii metamorphosen libris quindecim. Capitula libri primi. Chaos in elementor. species ...

f. 1v: Cap. XIII. Hersilia in hora.

f. 2: Originally blank.

foll. 3r-201r: OVIDIUS. METAMORPHOSES.

f. 3r: Narratio Ovidii Nasonis in libris quindecim. Chapter list. Chaos. I. k Species ... XIII. k isidem dea, followed by verses (Tristia I. VII. 15-40):
Hec ego discedens ...

f. 3v: Emendaturus si licuisset eram. Text of Metamorphoses begins: In nova fert animus mutatas dicere formas ...

f. 201r: Siquid habent veri vatum presagium vivam. Explicit lib. XV et ultimus Ovidii metamorphoseon. Foll. 189-201 added by 15th century hands (= XIV. 839 — XV. 879). Munari gives details of other added leaves: f. 7 contains I. 198-225.

AMONG NUMEROUS MARGINAL ILLUSTRATIONS:

f. 20r: Gemini; Taurus; Sagittarius; Aries; Cancer; Leo (Book II, 193 seq.).

BIBLIOTECA NAZIONALE, XIV. D. 37

Third quarter of XV. Humanistic cursive. Paper. 55 foll. 220 x 145. Modern mauve cardboard binding.

foll. 1r-v: ARATUS. GENUS (Maass, pp. 146-50).

f. 1r: Capitals: Fragmentum Arati cum comen/to noviter repertum in Sicilia. Ordinary script: Aratus quidem fuit ...

f. 1v: mathematicae reperimus.

foll. 1v-3v: EXCERPTS FROM THE SCHOLIA SANGERMANENSIA (Breysig, pp. 105-07).

f. 1v: Celum circulis quinque distinguitur quorum duo extremi...

f. 3v: connexio vero piscium comunem habet stellam.

COLOURED ILLUMINATION:

f. 2v: Heavenly sphere.

foll. 4r-37r: GERMANICUS CAESARIS. ARATEA VERSES 1-430, WITH THE SCHOLIA SANGERMANENSIA (Breysig, pp. 109-81).

f. 4r: Ab Iove principium magno...

f. 37r: per singula latera.

COLOURED ILLUSTRATIONS WITH STARS INDICATED:

f. 3v: Jupiter on eagle. f. 6r: Draco inter arctos. f. 7v: Hercules. f. 8v: Corona. f. 9r: Ophiuchus on Scorpio. f. 10v: Bootes. f. 12v: Leo. f. 13v: Agitator. f. 14v: Cepheus. f. 16v: Cassiopeia. f. 17r: Andromeda. f. 18r: Equus. f. 18v: Aries. f. 19v: Delatoton. f. 20r: Pisces. f. 21r: Perseus. f. 22r: Pleiads. f. 22v: Lyra. f. 23v: Cygnus. f. 24r: Aquarius and Capricornus. f. 26v: Sagittarius and Sagitta. f. 29v: Syrius. f. 31r: Lepus. f. 32r: Argo. f. 32v: Cetus. f. 33r: Fluvius (with later drawing of Phaeton in margin). f. 34v: Piscis magnus. f. 35r: Sacrarium. f. 35v: Centaurus. f. 36v: Hydra, corvus, and crater.

(For Jupiter, see Saxl I, fig. VIII; Cepheus, I, fig. X; Aquarius, Capricornus, III, fig. 25; Sagittarius, III, fig. 26; Fluvius, I, pl. II. 4).

foll. 37v-39v: ARATUS. PHAENOM. RELIQUIAE (Breysig, III, pp. 52-163).

f. 37v: Ethereum venit taurus super...

f. 39v: signa dabunt non irrita pisces.

foll. 39v-43r: EXCERPTS FROM THE SCHOLIA SANGERMANENSIA, DE SOLE ET LUNA (Breysig, pp. 193-202).

f. 39v: Solem per se ipsum constat moveri...

f. 43r: namque is certissimus auctor.

COLOURED ILLUSTRATIONS:

f. 40v: Sol and chariot. f. 43r: Luna and chariot.

foll. 43r-45v: EXCERPTS FROM PLINY, NAT. HIST. XVIII (Breysig, pp. 203-09).

f. 43r: A bruma in favonium...

f. 45v: ab equinoctio dicimus fieri.

fol. 43r-45v: EXCERPTS FROM PLINY, NAT. HIST. XVIII (Breysig pp. 210-15).

f. 45v: Ante omnia autem duo esse...

f. 47v: segete non esse noxias tempestates.

f. 48r: DE POLIS MUNDI (Breysig, pp. 111-12). Vertices extremos circa quos ... sunt autem omnes xx. Illustration: f. 48r: Austronotus.

fol. 48r-55v: PLINY, NAT. HIST. XVIII, 341, 342 with HYGINUS, ASTRONOMICA IV. 6-14.

f. 48r: Primum a sole capiemus praesagia...

f. 55v: spacium impleat lumine. Si quis.

PADUA

BIBLIOTECA ANTONIANA, 27

Early X (post A. D. 881). ? Verona. Parchment. 133 foll. 270 x 210. Varying number of long lines, with the exception of foll. 130v-133r where double columns are used. Modern board binding. Includes calendar and chronicle which have long been known to scholars, and astrological pictures, which are not so widely known.

Muratori, *Antiquitates italicæ Medii Aevi*, IV, Milan, 1741, 940; MGH *Scriptores*, III, 1839, pp. 238-40; G. Mercati, "Il catalogo leonense dei re Longobardi e Franchi", *Römische Quartalschrift für christliche Altertumskunde und für Kirchengeschichte*, Rome 1895, pp. 337-49; G. Morin, "La Translation de S. Benoit et la chronique de Leon", *Revue Bénédictine*, XIX, 1902, pp. 337-56; L. Guidaldi, *I più antichi codici della Biblioteca Antoniana di Padua*, Padua, 1930, pp. 21-28; B. Pagnin, "La Provenienza del Codice Antoniano 27 e del 'Chronicon legum Langobardorum' in esso contenuto", *Miscellanea in onore di Roberto Cessi*, I, Rome, 1958, pp. 29-41.

fol. 1r-40v: RABANUS MAURUS. DE COMPUTO.

fol. 1r-1v: Incipit prologus Rabani Abbatis. Dilecto fratri Machario monacho ... absolvas et michi remittas. Vale. Explicit prologus.

fol. 1v-2v: Incipit capitula libri sequentis. I. De numerorum potentia ... XCVI. De aetatibus. Expliciunt capitula.

fol. 3r-40v: Incipit liber Rhabbani de computo. Quia te venerande preceptor ... capere peritia. 1. De numerorum potentia. M. Bene etiam dilecte frater ... ends imperfectly with Chap. XCVI: simul de utrisque dicemus.

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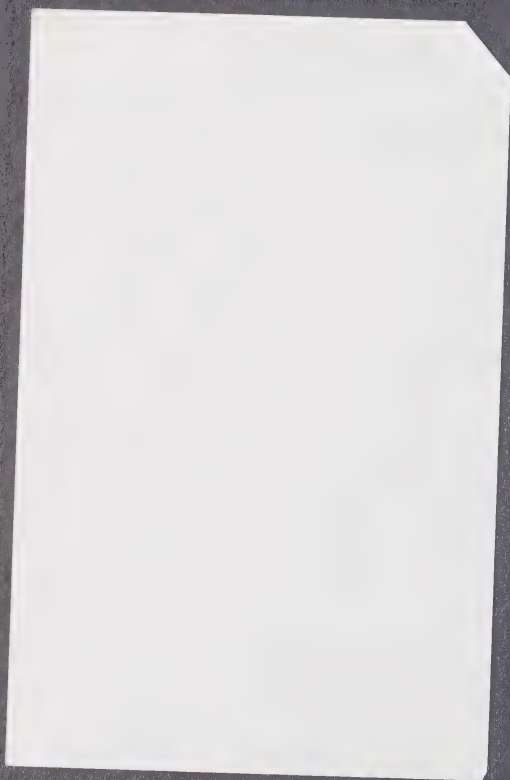
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foll. 40v-41r: De VI aetatibus mundi (DT 16). Sex etatibus mundi tempora (sic) distinguuntur ... totius saeculi morte finienda.

foll. 41r-43v: Cursus et ordo temporum. Prima aetas continet iuxta hebraeos annos ... sex aetatis soli deo patet.

foll. 43v-44r: De athomis momentis punctis et horis (opening MAURUS. DE UNIVERSO, 22. 9). Athomus philosophi vocarunt quasdam in mundo corporum ... in quibusdam intervallis cum aliquid sibi cedit atque succedit.

foll. 44r-45v: Isidori (?) de diebus et vocabulis dierum. Dies apud gentiles dicti a diis quorum nomina ... qui dicitur bissextus.

foll. 45v-46v: Isidorus de mensibus et nomina mensium (opening ISIDORUS. ETYM. V, 33, 1-2). Mensis grecum nomen est de lunae. ... continentium dierum.

f. 46v: Argumentum ad septuagesimum et quadragesimum et pasca et rogationes in summa velocitate inveniendum. Ianuarius habet regulares XXXII ad LXXma. requirenda ... sed in februario.

foll. 46v-47r: Argumentum ad LXXmum. Februarius a Septuagesimam inquirendum habet regulares XXXI ... in termino LXXe.

f. 47r: Ad XLmam argumentum. Februarius ad XLma inquirendam. ... addere non obliviscaris.

foll. 47r-47v: Item ad XL. Marcus ad inquirendum habet regulares ... et invenis lunam pentecosten.

foll. 47v-48r: Argumentum de pasca inveniendum. De quacumque enim circulo decemnovalis calculare ... lunam XIIIiam terminum paschalem.

foll. 48r-49r: Argumentum (opening PL 90, 722). Unus punctus quarta pars hore et facit decem momenta ... sunt in totum horae CLXV mil. DCCCCXXI.

f. 49r: Ratio de Bisexto (opening PL 129, 1295). Unus annus solaris habet dies CCCLXV et inter dies et noctes ... unum quadrantem interponebant diem. (Section at end from "Quare fit bissextus et quomodo fuit ... interponebant diem" = PL 129, 1295-6).

foll. 49v-50r: Interrogatio de bisexto (first question PL 90, 723, last opening "Quis primum invenit bissextum invenitur" = PL 90, 723). Quare fit bissextus aut quomodo fit et quid esset de temporibus si non fuisset bissextus. R. Propterea fit bissextus ... quamdiu palpebrere (?) qui escunt.

fol. 50r-54r: Interrogationes (from Mundus to Dies). Int. Pro quid dicitur mundus. R. Mundus est qui constat ex celo et terra ... dies habeat horas XVIII et nox VI.

fol. 54r-56r: Item versus metrici Bedae quo inveni in alio loco. Si quis scire velit annus mundi ab origine ... explet cursum circuli.

fol. 56r-56v: Item versus heroici de XII signis mensum (Strecker, p. 693). Spera caeli duodenis signis circulum volvitur ... ver sículos umilis levita christi edidit hyeronimus.

fol. 56v-57r: Versus de nominibus ventorum (Baehrens, V, p. 383). Quattuor a quadro surgent limine venti ... quem gragi vocant ore camoeno.

fol. 57r-v: Versus metrici de regularibus lunarum (Van Wijk, pp. 119-20, also Monza F. 9/176 (CCXLVI), f. 6r). Septimber semper quinisque octo ... transcurrit lumine caeli.

f. 57v: Item versus metrici de regularibus kalendarum. Ianuarius atque maius trinus ... ostenduntur rite kalends.

f. 57v: Hec sunt opera quae fecit deus in principio: angelos, lucem aquam ... opera a deo omnipotente sex diebus condita.

fol. 57v-59r: Quir septuagesima et sexagesima nec non et quinquagesima in ordine per dies dominicos ante quadragesima dicatur vel scribatur. Exiente igitur inquisitione et consideratione ... nihil praeiudicamus amen.

fol. 59r-63r: Rationem autem humani corporis singulorumque membrorum differentiam Lactantius sive plerique auctorum ita diffinierunt dicentes (ISIDORUS. DIFF. II, 17, 19-23, 25, 24, 26-28). Homo dicitur ab humo ... animalis censentur alimenta.

fol. 63r-63v: De ponderibus. Talentum est pondo ... concula habet dragma unam.

fol. 63v-64r: De mensuris. Chorus est modiorum ... habet modum V.

f. 64r: De XII sacrificiis veteris testamenti. De duodecim sacrificiis veteris testamenti pauca dicere ... caritatis intelleguntur.

fol. 64r-v: De cursu que cantatur in aecclesia dei. Pro quibus virtutibus cantatur omnis cursus in aecclesia dei ... in sudore de fronte eius ceciderint.

fol. 64v-66r: In nomine patris et filii et spiritu sancti scriptum hieronimi (transcribed in Morin, *art. cit.*) Quoniam per singulos dies ... dum episcopo celerius innotescat.

fol. 66r-71v: Macrobbi Ambrosii Theodosii Quincius consulis et inlustis ad Eustatium filium suum Saturnaliorum liber incipit (MACROBIUS.

SATURNALIORUM LIBER I, 11-15 imperfect). Deinde idem prae plura infert ideo saturnalibus ... id est kallendas huic deae consecravit feliciter.

foll. 71v-75v: In nomine dei summi Anatholius Alexandrinus Episcopus Laudinae (ANATHOLIUS. DE RATIONE PASCHALI, Krusch, pp. 316-27). De ratione ordinationis temporum ac vicissitudinum mundi dicturi ... ianuarii similiter dividat.

foll. 76r-77v: Lunar tables (?) INCPTLTRSIETATNTCTS ... LVIII.

foll. 77v-78r: Nuper invenit ... IIII V XX.

foll. 78v-85r: Nineteen year cycles (A.D. 532-1063). Primus ciclus decennovennalis ... Ma. XVIII en.

f. 85v: Incipit computum Bedae seu aliis doctoribus (PSEUDO-BEDA. DE RATIONE COMPUTI, PL 90, 799). Ianuarius Augustus et December IIII non. habent ... omnes vero menses VIII idus habent.

foll. 85v-89v: Tables of concurrents, termini of feasts (PL 90, 715) and series of short questions and answers relating to the *computus*. On f. 87r the year is given as A.D. 881.

foll. 90r-90v: Versus cicli anniversalis (PL 90, 860). Linea christe tuos prima est que continet annos ... ostendit tepusque diemque.

f. 90v: Versus septem dierum (Baehrens, V, p. 353). Prima dies phoebe sacrato nomine fulget ... dies saturno septima summo.

f. 90v: Versus de XII signis (Anthol., p. 640, 4-12, 1-3). Respicis aprilis aries ... in martia tempora pisces.

f. 90v: Versus de singulis mensibus (Flor. 91, Anthol. 639). Primus Romanas ordiris Iane, Kalendas ... December adest (sic).

foll. 90v-91r: Item (*Neues Archiv*, V, 1880, p. 251). Aries informat primi cunabula mensis ... extremo sidere pischis.

f. 91r: Item (PL 94, 638). Primus adest aries obscuro lumine ... serpentes ludere pisces.

foll. 91r-91v: De duodecim signis quae vel a causis annalibus vel a gentilium fabulis nomina sumpserunt (ISIDORUS. ETYM. III, 71, 22-32 with some variants). Iam vero illa quae ab ipsis gentilibus signa ... astra eius memoriae causa collocaverunt.

foll. 91v-92r: (PL 129, 1343-4 with some variants). Sol igitur primum annum post bissextum... augeretur cursus illius.

foll. 92r-93r: Beda dicit quia ita dividunt mathematici in genealogiis Cap. I (Flor. 88-9). Annus solaris habet IIIIor tempora menses XII ... sed maior qua Phaeton.

- f. 93r: De stellis que planetae vocantur (ISIDORUS. ETYM. III, 71, 20-21). Planetae stellae sunt que non sunt fixe in caelo ... evertit.
- foll. 93r-94r: De sideribus vel stellis (ISIDORUS. ETYM. III, 71, 4-19). Sidera dicta quod navigantes ea ... penditur unus in ortu.
- f. 94r: Rerumque retro in II folio rerumque ut supra (ISIDORUS. ETYM. III, 71, 20, 22, 33-37). Planetae stelle sunt quae non sunt fixae in caelo ... distinguere tempora ordinavit.
- f. 94r: Haec stella cometes vocantur ... (note added in small hand at foot of page, final words being illegible).
- f. 94v: Indictio dicta est quasi valdedictio. Octavi annus ... XV anno inlustrabatur.
- f. 94v: Pro quibus mysteriis canitur missa. In mysterio laudis nomen missa accepit ... animae nostrae purgantur.
- f. 94v: De septem gradibus ecclesiasticis quomodo (?) eos ab vita christus (A. Wilmart, "Les Ordres du Christ", *Revue des sciences religieuses*, III, p. 311). Lector fuit Christus ... in latino speculator sive superintendens.
- f. 95v: Quo ordine duodecim signa in caelo consistent (DTR 16, 23-33). Undique gyrum caeli rotundissimum per lineam ... et quadrante perficietur. (Movable chart on page illustrates this.)
- f. 95v: (DIMENSIO CELESTIUM found in many computistical works, Monza F. 9/176, f. 74r, Reg. lat. 309, f. 102r, for instance; T-K 5). A terra ad lunam tonum ... et trecenta septuaginta quinque.
- f. 96r: Diagram of HOROLOGIUM VIATORUM (PL 90, 954).
- f. 96r: Spera caeli quater senis (Strecker, p. 692) ... hiemalis dicitur.
- f. 96v: De lune cursu per signa si computare non dedicit (DTR 19). Si qui vero etiam calculandi minus idoneus ... aegyptiorum traditum observatione.
- f. 96v: (Illegible words) ex libro questionum alcuini. Multa sunt genera cubitorum cubitum ... illa poterit (uit i.l.) magnitudo.
- f. 97r: Table illustrating first text on f. 96v (Cursus lune per signa DTR 19).
- f. 97v: Aetas Lunae in alphabetis distincta (DTR 23).
- f. 98r: De aetate lunae si quis computare non potest (DTR 23). Quod si adeo quisque deses ... providit antiquitas.
- foll. 98r-98v: De tribus annis circuli decennovenalis quo argumentum generale lunae cum ceteris servare queunt (DTR 20, 22-55). Sunt autem anni tres circuli decennovenalis ... intemerato ordine percurrat.

- f. 98v: Table of zodiac signs and months (PL 90, 754).
- f. 99r: Table: *aetas lunae in alphabetis distincta* (PL 90, 754-56). A refinement of the table on f. 97v.
- f. 99v: Lunar Table (PL 90, 802 C, the *Quadrata Tabella* of Cordoliani, 125). Below table: *Ecce quinque vocales. . . converte oculos tuos id est subter* (marginal addition at bottom).
- foll. 99v-100r: *Quot punctos sive horas unaquaeque luna per unam quamque noctem luceat. Luna I. Quattuor punctos lucet. . . ut ab illo lumen accipiat.*
- f. 100v: (Illegible) *percurrant zodiaci duodecim signa. Sol trecentis sexaginta quinque diebus . . . nuncupatur.*
- f. 100v: *De signis duodecim* (partly PL 90, 357-59). *Intrat sol in arietem inchoante prima hora noctis . . . quae praecedat XV. Kl. apr.*
- f. 101r: *De circulo magno paschae* (DTR 65). *Circulus paschae magnus est . . . evidentius agnoscant.*
- f. 101r: *Luna ianuarii media nocte accenditur . . . inter vesperum et mediam noctem.*
- foll. 101r-101v: *De annis communibus et embolismis* (ISIDORUS. ETYM. VI, 17, 21-24). *Communis annus est qui duodecim . . . si CCCLIII communis est.*
- f. 101v: *Qui uterque annus id est communis et embolismus. Apud haebraeos a principio mensis paschalis incipit ibidemque finitur. Apud vero romanos ab incipiente luna mensis ianuarii sumit initium ibidemque terminatur.*
- f. 101v: *Item Beda* (DTR 36, 18-24). *Annus solaris est cum ad eadem loca siderum redit . . . revertitur horis.*
- f. 101v: *De Bissexto* (DT 10, 1-7 with addition). *Bissexus ex quadrantis ratione per quadriennium . . . autem bissextili computa XXXma.*
- f. 101v: *Item de ratione bissexti scdm. Aug. Incipit primus annus ab occasu verbi gratia . . . ad occidentem solem eiusdem.*
- f. 101v: *Beda* (DTR 36, 38-9). *Annus autem civilem id est solarem haebrei ab aequinoctio . . . incipiunt romani.*
- foll. 101v-102r: (DTR 36, 7-25). *Annus lunaris quadrifariae accipitur. Primus est namque cum luna . . . de quibus superius iam diximus.*
- f. 102r: *Item. Cum XXVIII diebus et XII horis notata ratione saltus lunae a sole usque . . . rationem saltus duos sui annos impletur.*
- f. 102r: (Extracts from *Canons*). *Canones Carthaginenses de passionibus*

martyrum kapit. XIII. Liceat etiam legi passiones . . . Canones Laudicenses Kap. II . . . Ex decretis Damasus papae urbis romae . . . VIII kl. octobris.

f. 102v: Blank.

foll. 103r-108v: Calendar (see Morin, *art. cit.*).

foll. 109r-114r: (Tables for calculating feasts). foll. 109r-109v: Incipit clavis sequentium computationum quae ad initium setuagesimae et initium quadragesimae atque utrumque pascha sive rogationes seu pentecosten cum suis lunis inveniendum in decem paginis sunt comprehensae absque ullo errore. Lector meus prudentissime si has . . . sive concurrentes solent advenire. Tables: foll. 109v-110r: Septuagesima. foll. 110v-111r: Quadragesima. foll. 111v-112r: Pascha. foll. 112v-113r: Rogationes. foll. 113v-114r: Pentecost. Verses below these tables: f. 109v: Versus metrici de termino septuagesime. Februi K. in quinis . . . Februi nam idus in ternis. foll. 110v-111r: Versus metrici de termino quadragesimae (Strecker, p. 671). Octavae martis K. quinque . . . Pridie nonae martis in ternis. f. 111v: Nonae aprilis . . . constant tribus adeptis (Strecker, p. 670). foll. 112v-113: Item versus metrici de termino rogationum (Cordoliani, *Revue de l'histoire de l'Eglise Suisse*, 1957, p. 323). Sexto maii . . . K. in quinis. f. 113r: Pridie maii non . . . K. in tribus. foll. 113v-114r: Item versus metrici de termino Pentecosten. Nonae Iunii K. in quinis . . . Nonae Iunonis in ternis. Notes on tables: f. 111r: Si vis nosse qualiter isti . . . supra scriptum est. f. 113r: Si ipsos regulares vis cognoscere . . . et cetera ut supra. f. 114r: Regula istius numera dies . . . cuiuslibet anni.

f. 114v: (Texts concerning the moon). Argumentum de luna. Si nosse vis qua hora vel quo puncto lunae . . . quo puncto lunae commutatur. De luna qua hora diei mutetur. Si vis scire in qua hora diei . . . adthomum unum. Si in die an in nocte mutetur. Si vis scire si in die an nocte mutetur . . . mutationem quam queris. Qualiter inveniatur qualis sit etas in quae mutatur. Si ipsam lunam quam computaveris . . . qualis sit luna quae mutatur. foll. 114v-115r: Quomodo saltus lunae inveniatur (Flor. 70). In ciclo XVIIIlli. sunt anni lunares XVIII . . . et haec transilicio saltus appellatur.

f. 115r: Saltus dictus est a saliendo . . . in mense decembris fit.

f. 115v: De nominibus digitorum (ISIDORUS. ETYM. XI, 1, 70-2). Digiti nuncupati quod decem sunt . . . unicen dicunt.

f. 115v: Item de numero (DTR 1. 22-49). Cum dicis unum minimum in leva . . . et cetera usque ad VIII.

f. 115v: (*Romana Computatio*, Jones, I, p. 107). Sinistram manum super verticem ... aures retro respicientes.

fol. 116r-118r: Diagrams illustrating finger-language.

f. 118v: De septem miraculis manufactis (PL 90, 966, Jones, I, pp. 89-90). Primum capitolium Romae ... mirabilis aedificium.

f. 118v: Ianuarius aquarium ... per cupiditatem venationis caprae perdidit benedictus (?).

fol. 119r-123r: Incipiunt exemplaria diversa et utilia sanctorum patrum ad propectum animarum valde congrua. Si quis ea retinere voluerit mente devota de eo quod quattuor modis iudicat, Deus omne peccatum in primis de magnorum peccatorum magnis vindictis. Initium omnis peccati superbia est per quam diabolus est ... si non planetarum occursu moderaretur (last question = ALCUIN, INTERR. ET RESPONS. IN GENES. 20-24, PL 100, 519).

fol. 123v-124r: (Chronicle, see Muratori, *op. cit.*) Anno autem incarnationis domini nostri ihu. xpi. DCCCXLmo indictione III a ... regnavitque Ludovicus filius eius pro eo.

fol. 124r-124v: (Further very short extracts from Fathers.) Ambrosius. In christo peccante sic autem peccantes ... pluvia et himber.

f. 125: *Rota* of months, days and regulares. Text above: Cronica ut exposuit Sanctus Eusebius Episcopus Caesariensis Civitatis. Annus integer quot sunt dies CCCLXV ... in rota ita sunt.

f. 125v: *Rota* of concurrents. Text above and below: Si vis cognoscere per omnes annos circulum solarem vel quot sunt concurrentes. Sume annos ab initio mundi ... tot anni sunt circuli solaris.

f. 126r: *Rota* for day on which year begins. Text above: Si vis scire in qua die inchoat annus. Sume annos ab initio mundi ... sicut scriptum est in rota.

f. 126v: *Rota* for Easter and other movable feasts. Text above: Si vis scire pascha domini vel festivitates ipsius anni. Vide prius quomodo convenit ... sicut scriptum est in rota.

fol. 127r-127v: (Further computistical texts.) Si vis scire pascha domini in quo mense erit vel in qua die mensis. Vide in quo mense convenit pascha ... et ita cognosces in qua die convenit pascha. Si vis scire in quo mense deveniet initium quadragesimae vel in qua die mensis. Vide si fuerit pascha dni. super xvii dies mensis Aprilis ... in mense Februario. Si vis scire ascensionem dni. in quo mense erit. Vide si transierit pascha domini super XXII dies mensis aprilis subtrahe XXII ... in maio mense. Si vis scire pentecosten in quo mense erit vel in quo die mensis. Si tran-

sierit pascha domini supra XII dies in mense aprili . . . dies pentecostes in maio mense. Si vis scire nativitatem domini vel epyphaniam sine rotis. Vide in qua feria convenit Kl. octobris . . . nativitas christi vel aepyphaniam. Si vis scire terminum paschalem. Vide si terminus convenit in mense . . . paschales de anno in alium.

f. 127v: *Rota* for indictions. Text above: Si vis scire qualiter invenire possis indictiones per omnes annos. Tene annos ab initio mundi . . . sicut scriptum est in rota.

foll. 127v-129, 130r: (Computistical texts.) Si volueris invenire quomodo iniant menses unus post alium. Vide in qua feria initiat mensis octobris . . . de uno in alium. Si cupis invenire quod asit feria quam volueris. Sume annos ab initio mundi quot fuerunt . . . VII fer. erit. Si volueris cognoscere quot sunt anni ab incarnatione domini. Tene annos ab initio mundi subtrahe . . . anni ab incarnatione domini. Si volueris cognoscere numerum annorum de tempore usque in alium. Ab Adam usque ad Noe . . . fuerunt anni CCCXII. Si vis scire quantae sint gentes quae habent litteras saecundum illorum propriam linguam, ita sunt sicut scriptum est: *Rota* of races follows. (Multiplication and Division texts.) Si vis sapere quomodo multiplicare vel dividere debes numerum per . . . volueris numerare (for numbers from V to XXIII).

f. 128r: Zodiac signs on rota meant to illustrate heavenly spheres.

f. 128v: Blank (foll. 128-29 are conjugates apart from a quire: it is likely that f. 129 was meant to precede f. 128).

foll. 130v-133r: PSEUDO-BEDA. DE STELLIS CELORUM (Maass, pp. 582-94).

f. 130v: Helix arcturus maior habet autem in capite stellas obscuras VII. . .

f. 133r: eo quod contraria (sic) sit canis.

PEN DRAWINGS (derived from Cassino 3 group):

f. 130v: Arcturus maior; Arcturus minor; Draco; Erculis; Corona (Plate XIIe). f. 131r: Serpentarius; Scorpio; Bootis; Virgo (Plate IIa). f. 131v: Gemini; Cancer; Leo; Agitator (Plate Va); Taurus; Cepheus. f. 132r: Cassepia; Andromeda; Equus; Aries; Triangulus; Pisces. f. 132v: Perseus; Lira; Cignus; Aquarius; Capricornus; Sagittarius (Plate XI). f. 133v: Aquila; Delfinus; Orion; Canicula; Lepus; Argo. f. 133r: Coetus; Euridanus; Piscis magnus; Sacrarium; Centaurus; Hydra, corvus and crater; Anticanis (Plate X).

(For Virgo, Gemini, Cancer, Leo, Taurus, Cepheus, see Saxl III, pl. LXXIII. 184).

BIBLIOTECA DEL SEMINARIO, 48

XV. *Littera bastarda*. Paper. 54 pages. (Pages 1-48 form a quire of 24, pages 49, 51, 53 being single). 285 x 220. Number of lines vary, most on one page being 34. Thick parchment cover. 16th century hand wrote on binding: Michael Scotus figuris planetarum.

Pages 1-53: MICHAELUS SCOTUS. TRACTATUS DE 36 YMAGINIBUS ET 12 SIGNIS ATQUE 7 PLANETIS (see Bodl. 266, foll. 105v-114v, Saxl III, pp. 294-95).

p. 1: Tractatus de 36 ymaginibus et 12 signis atque 7 planetis./ Philosophi quidam multis ...

p. 4: Aries habet multas stellas inter quas ...

p. 53: est forma sui aspectus in caelo.

PEN DRAWINGS, CRUDE IN QUALITY, WITH STARS MARKED OCCASIONALLY (see Milan I. 90 sup.):

p. 5: Aries and Deltoton. p. 6: Taurus. p. 7: Gemini. p. 8: Cancer. p. 9: Leo. p. 10: Virgo. p. 11: Libra. p. 12: Scorpio. p. 13: Sagittarius. p. 14: Capricornus. p. 15: Aquarius. p. 16: Pisces. p. 20: Draco inter arctos. p. 21: Draco. p. 22: Hercules. p. 23: Corona. p. 24: Serpentarius on Scorpio. p. 25: Boetes. p. 26: Agitator. p. 27: Cepheus. p. 28: Cassiopeia (Plate VI d). p. 29: Equus vespertinus. p. 30: Andromida. p. 31: Perseus (Plate VI f). p. 32: Triangulus. p. 33: Cloca sive galina. p. 34: Lira. p. 35: Cignus. p. 36: Vultur volans. p. 37: Vultur cadens. p. 38: Cetus sive balena; Eridanus. p. 40: Joculator (Plate VI e). p. 41: Delphin. p. 42: Orion. p. 44: Canis; Lepus. p. 45: Navis. p. 46: Astronothus. p. 47: Demon meridianus. p. 48: Piscis magnus. p. 49: Puteus. p. 50: Centaurus. p. 51: Serpens, corvus and crater. p. 53: Antecanis; Equus secundus. p. 53: Trabellum; Vexillum.

(For comparable illustrations, see Milan I. 90 sup., p. 41).

PARMA

BIBLIOTECA PALATINA, PALAT. 71

XVI. Humanistic cursive. Parchment. i + 20 foll. (fly leaf of paper). 300 x 214. 36 long lines. Modern board binding. A luxury Humanistic manuscript with well prepared parchment and carefully ruled and spaced out lines. Arms of English royal house encircled by the Garter on foll. 1v and 2r. On f. 1v, three arms: (a) barry nebuly six argent and sable, chief, lion gules passant guardant, gules: motto "defende"; (b) smudged; "salva"; (c) azure, woman's head couped below shoulders, gules, hair or; "guberna". Arms of Florence at foot of side decorative border, on f. 2r.

f. 1v: Emblem of coloured astrolabe with arms of English royal house and three other arms at bottom.

foll. 2r-19v: DATI. SFERA.

f. 2r: Red capitals: E libro della Spera./Al padre al figlio allo spirito sancto ...

f. 19v: L'Asia maggiore al fiume Tanai./Red capitals: finito il libro della spera.

DRAWINGS:

f. 3v: Saturn, Jupiter, Mars, Sun and Chariot (Plate XIIa). f. 4v: Venus and Mercury (Plate XIIc). f. 5r: Luna.

BIBLIOTECA PALATINA, PARM. 27

Second half of XV. Humanistic cursive. Paper. ii + 143 foll. (of which 11 are unnumbered). 217 x 140. 16th century leather binding. Modern hand on f. iv: mutilato a c. 46 e 49 (30 agosto 1915) A. B. A 19th century hand lists contents on f. iir: Contiene questo codice. 1. Luciani Orationes II e Graeco in Latinam conversae per Antonium Rossium. 2. Hesiodi Opera et Dies latinitate donati a Nicolao de Valle ad Pium II P. M. 3. Basinii Parmensis Astronomicum cum Schematis. 4. Ejusdem metrica ad Sigismundum Malatestam de necessitate linguae Graecae in Latina poesi. 5. Johannis Stephani Cottae Epistolae VII ad Pontificem aliosque Principes, sive Elegi, quibus illos ad bellum contra Turcas capessendum exhortatur. 6. Sapphos Poetriae Carmina Latine ex Graeco reddita ab Ovidio. 7. Ovidii Pulex et Ibis. 8. Brutii Epistolae per Leonardum Arretinum ad Nicolaum V PP. 9. Sermo S. Joannis Os Auri (other hand writes "in festo decollationis S. Iohannis Baptistae"). R. J. Mitchell. "A note on two items in a codex of the Biblioteca Palatina (Cod. Parm. 27)", *Archivio Storico per le provincie Parmensi*, S. IV., Vol. XII, 1960, 71-74.

foll. 1r-9v: LUCIANUS. ORATIONES (transl. ANTONIUS ROSSIVS).

f. 1r: Luciani viri eloquentissimi orationes pro tauro ereo Phalarides dicando per Antonium Rossium e graeco in latinum traducto ad R. D. Car. Spol. Prefatio Antonii () eneo viderer reverendissime domine ...

f. 1v: exiguum instaurabit. /Oratio Phalaridis. /Misit huc nos viri delphii princeps ...

f. 9v: principatu dignari vidisse.

folio between f. 9 & f. 10 blank and unnumbered.

foll. 10r-26v: HESIOD. OPERA ET DIES (transl. NICOLAUS DE VALLE, see Ravenna, Bibl. Classense 120, foll. 21v-34v; Breslau, R. 60, foll. 27v-47v,

the latter described in *Catalogus Codicum Latinorum Classicorum in Bibliotheca Urbica Wratislaviensi*, Breslau, 1915, pp. 249-67; and many printed editions).

f. 10r: Dedicatory letter: Pio secundo pontifici maximo Nicolaus de Valle./ (S) i vacat Enea rerum dignissime presul... stetque cadatque tuo.

f. 10v: Pio II^o pontifici maximo poema Hesiodi translatum de greco in latinum per Nicolaum de Valli/ Ησιόδου Εργα και Ημεραι hesiodi opera et dies. Invocatio ad musas. (P)irides musae quarum...

f. 26v: se exercet ad usus. τέλος. Nicolaus de Valle.

f. 27r: Blank.

foll. 27v-28v: OVIDIUS. TRISTIUM III. 10.

f. 27v: (S) i quis aduc istic meminit...

f. 28v: Haec est in paenam terra reperta meam. Vale Telos. 2 leaves between f. 28 and f. 29 blank and unnumbered.

foll. 29r-67v: BASINIUS PARMENSIS. ASTRONOMICON.

f. 29r: Basinii Parmensis Poetae celeberrimi/ ἀστερομομηκων. liber primus. Etherios orbis subiectaque templa deorum...

f. 67v: atque vias semper volventis olympi.

PEN DRAWINGS WITH STARS INDICATED:

f. 34v: Draco inter arctos. f. 35r: Arctophylax. f. 35v: Corona. f. 36r: Hercules. f. 36v: Lyra. f. 37r: Cygnus. f. 37v: Cepheus. f. 38r: Casiopei. f. 38v: Andromedae. f. 39r: Perseus. f. 39v: Auriga. f. 40v: Anguitenens. f. 41r: Sagitta herculis. f. 41v: Aquila. f. 42r: Delphinus. f. 42v: Pegasus; Protinus. f. 43r: Eridanus. f. 43v: Urion; Lepus. f. 44r: Canis maior. f. 44v: Canis. f. 45r: Argo. f. 46r: Centaurus; Ara (cut out). f. 47r: Hydra, corvus and crater. f. 47v: Piscis austrinus; Deltoton and Aries. f. 48r: Taurus. f. 48v: Gemini (one an addition). f. 49r: Cancer. f. 49v: Leo. f. 50r: Virgo. f. 50v: Libra and Scorpius. f. 51r: Capricornus. f. 52v: Pisces.

(For Eridanus (no horns), see Saxl I, pl. III. 6).

foll. 68r-71r: BASINIUS PARMENSIS. AD SIGISMUNDUM PANDULFUM MALATESTAM (published in *Anecdota litteraria ex MSS. codicibus eruta*, II, Rome, 1733, pp. 405-16; also Rimini edition, Vol. II, 1794, p. 31).

f. 68r: Red: Eiusdem Basinii epistola ad Principem Sigismundum

Pandulfum Malatestam in qua ostendit poetas latinos sine graecis nihil omnino posse. (Q)uis ferat indocti temeraria...

f. 71r: et fluviis magni defluxit homeri. τελωσ.

foll. 71v-72r: Blank.

foll. 72v-84v: JOHANNES STEPHANUS COTTA. EPISTOLAE (according to Mitchell, *art. cit.*, also found in Savignano di Romagna, Bibl. Comunale Cod. 33).

f. 72r: Red: Iohannes Stephanus Cotta Pio II° Pontifici/Maximo felicitatem/Ordinary script: (I)gitur exiguas caelesti sede relictæ... consociata sono. Vale.

f. 73r: Iohannis Stephanis Cottæ ad Pium II Pontificum maximum de exhortatione in Turcos epistolarum libellus. Epistola prima. (L)umen per christi soli...

f. 84v: facta pater. τελωσ. Iohannis Stephani Cottæ epistolæ septem omnes expliciunt faeliciter de exhortatione in Turcos. Finis. Laus deo.

foll. 85r-91r: OVIDIUS. SAPHOS MULIERIS LIBER.

f. 85r: Red: Saphos mulieris liber./Ecquid ut aspecta est studiosæ...

f. 91r: ut mihi leucadiæ freta petentur aquæ. Finit/Sapphos vatis mulieris opus explicit amoris per Ovidium Nasonem de graeco in latinum translatum.

foll. 91v-92v: PSEUDO-OVIDIUS. PULEX (F. W. Lenz, "De Pulice libellus", *Maia*, n.s. XIV, 1962, pp. 299-333).

f. 91v: Red: Ovidii Nasonis poetæ clarissimi de pulice opus incipit faeliciter. (O p)arve pulex sed amara lues...

f. 92v: sibi me socium./τελωσ/Red: Ovidii Nasonis poetæ celeberrimi in Pulicem/opus explicit/Laus deo.

foll. 93r-103r: OVIDIUS. IBIS 1-374.

f. 93r: Red: Ovidius Naso Sulmonensis poeta in Ibin/Tempus ad hoc lustris in iam bis...

f. 103r: caecæ non adeunda domus.

8 unnumbered leaves between f. 103 and f. 104.

foll. 104r-123r: PSEUDO-BRUTUS. EPISTOLAE (trans. RINUCIUS ARETINUS).

f. 104r: Red: Epistolæ Bruti per Leonardum (?) Arretinum et cetera

(?) ad Dominum Nicolaum Papam. (S)olent beatissime pater qui invigilant alicui operi quod ad mores hominum. . .

f. 123r: id eos denegare necesse est. τελωσ. Laus deo amen.

foll. 123v-126r: PETRUS CHRISOLOGUS. SERMO (PL 52, 549-52).

f. 123v: (H)odie nobis Iohannes virtus herodis. . . (at top of page 16th century hand wrote: Sermo Sancti Iohannis Os Auri).

f. 126r: et de natali suo herodes mortuus est.

foll. 126r-132r: PSEUDO-CHRYSTOSTOMUS. DE DECOLLATIONE BEATI IOHANNIS BAPTISTAE (PL 95, 1508-14).

f. 126r: Heu me, quid agam ? Unde sermonis exordium faciam? . . .

f. 132r: et laude adnumerimini in Christo Jhesu cui est gloria in secula seculorum amen.

BIBLIOTECA PALATINA, PARM. 1008

Third quarter of XV (? 1458). Italian Humanistic cursive. Paper. ii + 18 foll. 292 x 167. 39 long lines. Contemporary leather binding. At top of f. 1r later hand has added initials: IC XC V M B H.

F. Odorici, "Memorie storiche della Nazionale Biblioteca di Parma", *Atti e Memorie delle R.R. Deputazioni di storia patria per le provincie modenesi e parmensi*, III, 1865, p. 436.

foll. 1r-18v: BASINIUS PARMENSIS. ASTRONOMICON.

f. 1r: Capitals: Basinii Parmensis Astronomicon liber primus./ Ordinary script: Hetherios orbis subiectaque templa deorum. . .

f. 18v: Templa cano atque vias semper volventis olympi. Capitals for colophon: Finis/MCCCCLVIII VIII KL. Sextilis Ego/Petrus Marius Arimini scripsi/D.S. aet. optumoque laus honor et gloria.

PEN DRAWINGS WITH PENCIL SHADING WITH STARS INDICATED, EXTREMELY CLOSE TO THE SISTER BASINIUS MS., OXFORD, BODL. 646 (s.c. 2864) for which see Saxl III, pp. 316-8:

f. 3v: Draco inter arctos; Arctophylax. f. 4r: Corona; Hercules. f. 4v: Lyra; Cygnus. f. 5r: Cepheus; Casiope. f. 5v: Andromeda; Perseus. f. 6r: Erichthonius; Triptolomus. f. 6v: Sagitta; Aquila. f. 7r: Delphin; Equus Pegaseus. f. 7v: Pistris Delphin; Ceto (sic for Eridanus). f. 8r: Lepus; Orion; Procyon; Canis. f. 8v: Argo; Centaurus. f. 9r: Ara; Hydra, corvus and cratera; Piscis austrinus. f. 9v: Aries and Deltoton; Taurus. f. 10r: Gemini; Cancer. f. 10v: Leo; Virgo. f. 11r: Scorpius and Libra; Sagittarius. f. 11v: Capricornus; Aquarius. f. 12r: Pisces.

(For Eridanus (no horns), see Saxl I, pl. III. 6).

PAVIA

BIBLIOTECA UNIVERSITARIA, ALDINI 490

Second half of XV. Humanistic. Parchment. iv + 58 foll. (fly leaves are paper). 237 x 157. 26-7 long lines. 16th century leather binding. Inside binding: CXXX E. 27. Note in Italian on MS. on f. ir. At foot of 1r and 2r the stamp of the University Library of Pavia.

L. De Marchi-G. Bertolani, *Inventario dei manoscritti della R. Biblioteca Universitaria di Pavia*, I, 1894, pp. 286-87.

foll. 1r-75r: HYGINUS. ASTRONOMICA I-IV.

f. 1r: Gold capitals for title: Iginii filosafi de imaginibus/liber incipit./Ordinary script: Et si studio grammaticae artis...

f. 75r: estivo circulo redit (dots under this to delete it) descendens redit ad eundem.

foll. 75v-76v: Blank (foll. 75-6 a bifolium separate from quires of book).

foll. 77r-144r: HYGINUS. ASTRONOMICA III-IV.

f. 77r: Gold capitals for title: Iginii gramatici de inm/ginibus./Ordinary script: Igitur incipiemus a polo boreo...

f. 114r: descendens redit ad eundem.

ILLUSTRATIONS HERE TO BOOK III, GOLD USED TO MARK STARS, GREEN, GREY, MAUVE PREDOMINANT COLOURS, (identical with those in Urb. lat. 1358, Saxl I, pp. 103-06, pl. III.6):

f. 77v: Draco inter arctos. f. 78v: Arctophylax; Corona. f. 79v: Engonasin. f. 80r: Lyra. f. 80v: Olor. f. 81r: Cepheus. f. 81v: Cassiopeia. f. 82r: Andromeda. f. 83r: Perseus. f. 83v: Eniocus. f. 84r: Ophyuchus. f. 85r: Sagitta; Aquila. f. 85v: Delphinus. f. 86r: Equus. f. 87r: Aries and Deltoton. f. 87v: Taurus. f. 88r: Gemini. f. 88v: Cancer. f. 89r: Leo. f. 89v: Virgo. f. 90r: Scorpio and Libra. f. 90v: Sagittarius. f. 91r: Capricornus. f. 91v: Aquarius. f. 92r: Pisces. f. 92v: Pistris. f. 93r: Eridanus. f. 93v: Lepus. f. 94r: Orion. f. 94v: Canis; Prochion. f. 95r: Argo. f. 96r: Centaurus; Ara. f. 97r: Hydra. Corvus and Crater; Nothus piscis.

(For Eridanus, see Saxl I, pl. III. 6).

foll. 114-115r: DE DIFFERENTIA TEMPORUM ORTUS SIGNORUM (version of Mart. Cap. *De nupt.*, VIII, 844-45).

f. 114v: De differentia temporum ortus signorum./Temporum quoque ipsorum...

f. 115r: habent in occasum: sequitur.

fol. 115r-127r: HYGINUS. ASTRONOMICA I-II.

f. 115r: Iginii gramatici astrologia sequitur/Iginus fabio suo salutem. Et si te studio...

f. 127r: mammam deformavit circulum.

fol. 127r-130v: DE CIRCULIS PLANETARUM (Mart. Cap., *De nupt.* VIII, 855-87).

f. 127r: Terra centrum est spere celestis...

f. 130v: latitudinem declinare aut retrograda facit. Sequitur.

fol. 130v-132v: DE POLIS (*Excerptum de Astrologia*, Maass, pp. 309-12):

f. 130v: Due sunt extremi vertices mundi...

f. 132v: ad ipsum usque decurrit accipiens.

RAVENNA

BIBLIOTECA CLASSENSE, 120

Second half of XV. Humanistic cursive. 206 foll. 210 x 140. Second part contains Hesiod in Greek. Modern leather and board binding.

Mazzatinti, IV, pp. 172-73.

fol. 1r-21v: BASINIUS PARMENSIS. ASTRONOMICON.

f. 1r: Basinii Parmensis poetae celeberrimi Astronomicon liber primus./Aethereos orbis subiectaque templa deorum...

f. 21v: Templi cano atque vias semper volventis Olympi./Astronomicon Basinii Parmensis poetae celeberrimi liber secundus et ultimus explicit faeliciter in Castroplebis in conventu heremitarum ordinis domini Augustini pridie nonas octubris 1483. (See L. Torelli, *Secoli Agostiniani*, V, Bologna, 1673, pp. 50, 94; VI, 1680, p. 355.)

PEN DRAWINGS:

f. 4r: Draco inter arctos; Arctophilax; Corona. f. 4v: Hercules. f. 5r: Lyra; Cygnus. f. 5v: Cepheus. f. 6r: Cassiopeia; Andromeda. f. 6v: Perseus. f. 7r: Auriga. f. 7v: Ophiuchus; Sagitta. f. 8r: Aquila; Delphinus. f. 8v: Equus Pegasus; Pistris. f. 9r: Eridanus; Lepus; Orion. f. 9v: Canis; Prochion. f. 10r: Argo. f. 10v: Centaurus; Ara. f. 11r: Hydra, corvus and crater; Piscis austrinus. f. 11v: Aries; Taurus. f. 12r: Gemini; Cancer. f. 12v: Leo. f. 13r: Virgo; Scorpio and Libra. f. 13v: Sagittarius and Corona (?); Capricornus. f. 14r: Aquarius. f. 14v: Pisces.

(For Eridanus, see Saxl I, pl. IX. 20).

foll. 21v-34v: HESIOD. OPERA ET DIES (transl. NICOLAUS DE VALLE, see Parm. 27 foll. 10r-26v; also many printed editions, e.g. Deventer, Jacobus de Breda 1492: Hain 8539).

f. 21v: Incipit translatio Hesiodi per Nicolaum de Valle ad Pium Secundum Pontificum Maximum eius scilicet operis que latine opera et dies graece *ἡμέραι καὶ ἔργα* appellatur. Incipit prohemium.
f. 22r: Si vacat Aenea rerum dignissime presul . . . stetque cadatque tuo.

f. 22r: Hesiodi translati per Nicolaum de Valle liber primus. Pierides musae quarum . . .

f. 34v: exercet ad usus. Hesiodi *ἔργα καὶ ἡμέραι* fuit per Nicolaum Vallensem traducta et ad Pium Secundum Pontificem Optimum Maximum missa.

foll. 35-36: Blank.

foll. 37r-50r: PINDAR. DE TRIENNIO BELLI TROYANI.

f. 37r: Pindari poetae preclarissimi incipit feliciter de greco in latinum translatio secundum Homerum super triennio belli Troyani. Iram pande mihi pelide diva superbi . . .

f. 50r: iam saeve peracte. Finis. Explicit liber pyndari feliciter quam ipse transferendum traxit de libro Homeri quod continet triennium belli Troyani, quem ego B. Peregi anno domini ab eius salutiferae incarnationis 1477 die 29 aprilis.

foll. 51r-107r: CLAUDIANUS. DE RAPTU PROSERPINAЕ, IN RUFIUM, DE III CONSULATU HONORII, DE IV CONSULATU HONORII, DE NUPTIIS HONORII ET MARIAE, IN NUPTIAS HONORII AUGUSTI ET MARIAE, DE BELLO GILDONICO.

f. 51r: Claudiani poetae optimi egyptiaci de raptu Proserpine praefatio in primum librum incipit: Inventa primus . . .

f. 107r: Suspensa zephiros expectant classe faventes.

foll. 108r-152r: AUSONIUS.

f. 108r: Ausonii Peonii poetae lepidissimi atque festivi epigrammaton dimidiatus liber. Prohoemium. Phoebe potens numeris praeses Tritonia bellis . . . Poems of Ausonius arranged in this order (nos. or pages of Peiper's edition): Epigrams 26, 25 (only last 3 lines), 27-30; Epitaphia 31; Epigrams 2, 9; De Fastis 1, 3, 4; Epigrams 31, 3, 32-33; Epitaphia 35; Epigrams 34-42, 14, 43-45, 53, 46-47, 49-52, 1; Epitaphia 32; Epigrams 54-57, 59, 7, 12-13, 8,

61, 10-11, 62; Epitaphia 28, 30 (only 2 lines); Epigrams 63-79, 24, 80-81, 4, 82-87, 60, 88-91, 15-21, 92-94, 22-23, 58, 95-96, 48, 97-105; Versus Pascali (pp. 17-19); Epistolae 4, 6-7; De Bissula 2; Epistolae 7 (2nd part), 23, 13, 25, 26, 11, 12, 8, 9; Eclogues 25; Monosticha de ordine imperatorum 1-4; Tetrasticha 14-18; Epigrams 106, 109, 107-12; Ephemeris 7; Ad Gratianum Imperatorem pp. 353-76; Technopaegnon (pp. 156-68, omitting no. 13); Griphus Ternarii Numeri (pp. 196-205); Cento Nuptialis (pp. 206-19); Epistolae 14, 24; Ephemeris 3; Domestica 4 (from line 16); Epistolae 22; Cupido Cruciatur (pp. 109-13); De Bissula (pp. 114-17, omitting no. 2).

f. 152r: imitetur apes. finis. Below are 4 lines in Greek, subscribed: Bartholomaei Gualdini in Ausonium Tetrastycon Ausonii peonii poete clarissimi fragmenta expliciunt quae ad aetatem usque nostram fortuna pervenire permisit coetera desiderantur.

fol. 155r-170r: GREGORIUS TIFERNAS (see ed. Venice, 11 June 1498).

f. 155r: Publii Gregorii Tiferni poetae illustrissimi in trinitatem hymnus. Hic meliore lyra maiore hic carmine Clio... (Other poems follow in this order: Ad divam Mariam virginem, In malitiam Iunonis, Ad Polidorum famulum, Ad Thomam Reatinum, Triumphus Cupidinis, Ad Angelum Reatinum, Ad Pium Secundum Pontificem maximum, Ad Iohannem Tortellium, Ad Illm. Franciscum Sfortiam Insubrium ducem, Vaticinium italicae cladis, Ad Petrum Bombellium, Ad Ludovicum Gonzagam Mantuae principem, De Humana fragilitate, Silvinae puellae epitaphium, Didaco epitaphium, Camillo epitaphium, Sabellio epitaphium, Iuliae puellae epitaphium, Thomae Moronio epitaphium, Untitled epitaph (= In Ladislaum Regem Pannoniae), Pallanti Strozzae equiti florentino epitaphium, Paulo Barbo epitaphium, Valerio Marcello epitaphium, Nenia in Quintillam, Ad Paulum amicum, Ad amicum potentem, Ad Philippum ducem, Ad Petrum Aureolanum, In Virgilium Maronem, In aedem sacram, In navale Venetorum, In Psitacum, Ad Candidum.

f. 170: videas esse negato meos. Finis Romae II Kl. Februariis.

fol. 172-206: HESIOD. Greek section of MS.

SIENA

BIBLIOTECA COMUNALE DEGLI INTRONATI, L. IV. 25

Late XIV. Italian Gothic minuscule. Parchent. iv + 8 foll. 367 x 260
Varying number of lines because of illustrations. Brown board binding with
leather spine.

foll. 1r-8r: Revised ARATUS. "SCHOLIA SANGERMANENSIA" (Maass, pp.
190-238).

f. 1r: Opens imperfectly: *Serpentem a Iunonem ad custodienda
aurea...*

f. 6v: Ends imperfectly (the correct order of folios being 1, 2, 7,
3, 4, 8, 5, 6): *de qua prefati sumus habet stellas...*

COLOURED ILLUSTRATIONS (the MS. being the only "Scholia Sangerma-
nensia" with pictures to survive between the 9th-10th [Paris lat. 12957,
Cologne 83 II, Dresden Dc. 183, St. Gall 902 and 250] and the 15th
[Vat. Reg. lat. 1324, Götweig 7] centuries):

f. 1r: Hercules. f. 1v: Corona; Serpentarius on Scorpio. f. 2r: Scorpius;
Bootes (Plate IIIa). f. 2v: Virgo with Libra. f. 7r: Gemini with Cancer;
Cancer. f. 7v: Leo. f. 3r: Agitator; Taurus. f. 3v: Cepheus. f. 4r: Cas-
siopeia. f. 4v: Andromeda. f. 8r: Equus; Aries. f. 8v: Triangulum;
Pisces. f. 5r: Perseus. f. 5v: Pleiads. f. 6r: Lira; Cygnus. f. 6v: Aquarius;
Capricornus.

(For Serpentarius on Scorpio, see Saxl I, pl. VI. 12).

BIBLIOTECA COMUNALE DEGLI INTRONATI, L. VI. 25

Second half of XV (1475). Italian Gothic. Paper. 80 foll. 192 x 150. 24 long
lines. 19th century board binding with leather spine. f. 62v: *Higini de signis
celestibus liber finitur perfectus XI kalendas octobris 1475 per Iohannem Pe-
trum Constantinum eius possessorem ac dominum.*

foll. 1r-62v: HYGINUS. ASTRONOMICA I-IV.

f. 1r: Red: *Higini de signis celestibus. De eorum formationibus
et constitutionis causa secundum fabulas et eorum ordine ortu et
occasu. Liber primus incipit/Et si te studio grammaticae artis
inductum...*

f. 62v: *sol ab aestivo circulo redit. Red: Higini de signis celestibus
liber finitur perfectus XI kalendas octobris 1475 per Iohannem
Petrum Constantinum eius possessorem ac dominum.*

DRAWINGS TO BOOK III WITH STARS MARKED:

f. 34r: *Draco inter arctos.* f. 34v: *Arctophilax.* f. 35r: *Corona; Engona-*

sin. f. 35v: Lyra. f. 37r: Cassiopeia. f. 37v: Andromeda. f. 38r: Perseus. f. 38v: Heniocus. f. 39r: Ophiulcus. f. 39v: Sagitta. f. 41r: Aries and Deltoton. f. 41v: Taurus. f. 42r: Gemini. f. 42v: Cancer; Leo. f. 43r: Virgo. f. 43v: Scorpio and Libra. f. 44r: Sagittarius. f. 44v: Capricornus. f. 46r: Pistrix; Eridanus. f. 46v: Lepus; Orion. f. 47r: Pisces. f. 47v: Aquarius. f. 48r: Argo. f. 48v: Centaurus. f. 49r: Ara. f. 49v: Hydra, corvus and crater; Piscis notus. f. 45 missing, f. 47v should follow f. 44v, f. 47r f. 47v and f. 46r f. 47r. Olor, Cepheus (after Lira), Aquila, Delphinus, Equus (after Sagitta), Canis, Prochion (after Orion) are missing.

(For Eridanus (no horns), see Saxl I, pl. III. 6).

fol. 63r-65v: TEXTS ON STARS (mostly ISIDORUS).

f. 63r: Duodecim signa zodiaci secundum quosdam. Aries a medio Martii usque ad medium Aprilis . . . Sol in Capricorno, Aquario, Piscibus conficit hiemem. Then follows *Etym.*, III, 71, 3, 60-1; *De Nat. Rer.*, 24, 1; *Etym.*, III, 62-5; *DNR* 22; *Etym.*, III, 66, 1-2; *DNR* 23, 1-3; *Etym.*, III, 68-70; *DNR* 25-6, 1-2; *Etym.*, III, 71, 1-3.

f. 65v: petens aethereum ignem trahit qui tra(ctu) . . .

fol. 73r-80v: INDEX FOR HYGINUS.

f. 73r: Achelaus 20 . . .

f. 80v: Zodiacus et zodiaci signa 3. 4. 6. 43. 129.

BIBLIOTECA COMUNALE DEGLI INTRONATI, L. X. 42

First half of XV. Gothic minuscule. Parchment. ii + 46 foll., of which foll. 45-46 are unnumbered. 186 x 148. 34 long lines. 2 columns on foll. 12v-14r. Board binding with leather spine. Fly leaves have extracts from a 15th century account book.

fol. 39r-44r, 1r-38v: ANDALÒ DI NEGRO. INTRODUCTORIUS AD IUDICIA ASTROLOGIE (incomplete; Thorndike III, pp. 191-93; C. de Simoni, "Intorno alla vita ed ai lavori di Andalò di Negro", *Bullettino di bibliografia e di storia delle scienze matematiche e fisiche*, 7, 1874, pp. 313-38; B. Boncompagni, "Catalogo dei lavori di Andalò di Negro", *id.*, pp. 339-76).

f. 39r: Introductorius ad iudicia astrologie compilatus/Circulus zodiacus est circulus signorum cuius circumferentia . . .

f. 44r: planetarum essentiales in signis./Red: De quibusdam accidentibus planetarum. No text follows. f. 44v and the unnumbered

foll. 45 and 46 are blank, though they are not added leaves, being the 7th and 8th leaves of a quire of 10 which begins with f. 39 and has leaves 9 and 10 missing.

f. 1r: (A)ries est signum primum zodiaci. . .

f. 38v: et dicitur infelix. . . (imperfect end).

PEN DRAWINGS WITH COLOURED WASH AND STARS INDICATED (similar to those in Add. 23770, see Saxl III, pp. 66-68, pl. LXXVIII, and to those in Paris lat. 7272):

f. 2r: Aries. f. 3v: Taurus. f. 5r: Gemini. f. 6v: Cancer. f. 8r: Leo. f. 9r: Virgo. f. 10v: Libra. f. 12v: Scorpio. f. 13r: Sagittarius. f. 14v: Capricornus. f. 16r: Aquarius. f. 18r: Pisces. f. 21r: Saturn. f. 21v: Jupiter (Plate VIIIb). f. 24r: Mars. f. 26v: Sol. f. 29r: Venus (Plate VIIIa). f. 30v: Mercury. f. 32v: Luna.

(For Saturn, Sol, Mercury, Luna, see Saxl III, pl. LXXVIII).

VENICE

BIBLIOTECA MARCIANA, LAT. VIII. 22 (2760)

Beginning XIII. Rough parchment. ii + 42 foll. 245 x 170. 37 long lines. Modern board binding. Inside binding, no.: XCVI. 5. Fly leaf ii has 14th century liturgical text.

J. Valentinelli, *Bibliotheca manuscripta ad S. Marci Venetiarum*, IV, Venice, 1871, p. 255; C. H. Haskins, *Studies in the History of Mediaeval Science*, Cambridge, Mass. 1927, pp. 338-45; A. Van de Vyver, "Traductions médiévales de *Traité d'Astronomie*", *Osiris*, I, 1936, pp. 683-87.

foll. 1r-31r: NIMROD (?). LIBER DE ASTRONOMIA (see Pal. lat. 1417, Saxl, I, pp. 30-1, pl. XXI).

f. 1r: Spera celi quater senis horis dum revolvitur. . . galli sine vocibus (Strecker, p. 692 verses 1-3, found also in Reg. lat. 309, f. 128). Incipit liber de astronomia de forma celi et quomodo decurrit inclinatum. Celum igitur inclinatum volvitur a meridiano. . .

f. 31r: XVIII v VI (ends section Si volueris invenire numerus. . .).

AMONG DIAGRAMS AND ILLUSTRATIONS:

f. 3r: De XII fortitudinibus (Plate VIIIc). f. 4r: Heavenly spheres schema with medallions of signs of zodiac in outer circle and Draco inter arctos in centre.

foll. 31v-36r: PSEUDO-BEDA. DE SIGNIS CAELI. (Maass, pp. 582-94).

f. 31v: Helix arcturus maior habet autem in capite stellas obscuras...

f. 36r: quod contraria sit canis.

ILLUSTRATIONS WITH STARS INDICATED (close to Monte Cassino 3 and Padua 27):

f. 31v: Arctus maior; Arcturus minor; Hercules; Draco; Corona. f. 32r: Serpentarius; Scorpio; Bootes; Virgo (Plate IIIb). f. 32v: Gemini; Cancer; Leo; Agitator (Plate Vc). f. 33r: Taurus; Cepheus; Sasepeia; Andromeda. f. 33v: Equus; Aries; Triangulus; Pisces; Perseus. f. 34r: Lira; Cignus; Aquarius; Capricornus. f. 34v: Sagittarius; Aquila; Delphinus; Orion. f. 35r: Canicula; Lepus; Navis; Cetus. f. 35v: Eridanus; Piscis magnus; Sacrarium; Centaurus. f. 36r: Hydra, corvus and crater; Anticanis.

(See Monte Cassino 3 and Padua 27 references for further illustrations).

fol. 37r-41r: *COMPUTUS* (T-K 1309, 242 quotes Valentinelli as referring to it as XV).

f. 37r: *Incipit doctrina compoti. Quoniam ut platonis sonat...*

f. 41r: *totidem quam december.*

DIAGRAMS: fol. 40r, 40r, 41r.

BIBLIOTECA MARCIANA, LAT. XII. 194 (4178)

Second half of XV. Humanistic cursive. Paper. 29 foll. 220 x 148. 29 long lines. Arranged in 3 quires, first of 12, two of 8. 18th century leather binding. Label inside binding: Provenienza Morelli Giaco. 354.

fol. 1r-29r: *BASINIUS PARMENSIS. ASTRONOMICON.*

f. 1r: Red capitals for title: *Basinii/Parmen/sis/astrono/micon/liber pri/mus inci/pit/foelicit/er./Ordinary script: Eterios orbis subiectaque templa deorum...*

f. 29r: *Templa cano atque vias semper volventis olympi/finis amen/Red capitals: Basinii Parmensis astro/rum liber explicit.*

PEN DRAWINGS WITH COLOURED WASH WITH STARS INDICATED:

f. 5r: Draco inter arctos. f. 5v: Corona; Arctophilax. f. 6r: Hercules; Lira. f. 6v: Cignus. f. 7r: Cepheus. f. 7v: Casiopes. f. 8r: Andromeda. f. 8v: Perseus. f. 9r: Erichonius. f. 9v: Triptolomus. f. 10r: Sagitta. f. 10v: Aquila; Delphin. f. 11r: Pegasus. f. 11v: Pistrix Delphin. f. 12r: Eridanus (inscribed Ceto); Lepus. f. 12v: Orion. f. 13r: Canis sirius; Procion. f. 13v: Argos. f. 14r: Centaurus. f. 14v: Ara. f. 15r: Hidra, cratera and corvus; Piscis austrinus. f. 15v: Aries and Deltoton. f. 16r: Taurus. f. 16v: Gemini; Cancer. f. 17r: Leo. f. 17v: Virgo. f. 18r: Scorpius and Libra; Centaurus (really Sagittarius). f. 18v: Capricornus. f. 19r: Aquarius. f. 19v: Pisces.

(For Eridanus (no horns), see Saxl I, pl. III. 6).

VERONA

BIBLIOTECA CAPITOLARE, CCLXI

End of XV. Humanistic cursive. Paper. i + 128 foll. 250 x 150. 21 long lines. 15th century binding. MS. catalogue in library by Spagnolo says the book belonged to the Giuliani family.

foll. 1r-2r: A. GELLIUS. NOCTES ATTICAE II, 22, 3-16.

f. 1r: Favorini verba de ventorum sedibus ab Aulo Gellio. Limites regiones que caeli quattuor...

f. 2r: quatuor ventos noverit et cetera. Telos.

foll. 3r-30r: JOHANNES DE SACROBOSCO. SPHAERA.

f. 3r: Capitals: Incipit Spera secundum Magistrum Iohannem Magistrum Iohannem Gallicum de Sacrobosco./Ordinary script: Tractatum de spera quatuor capitulis distinguimus...

f. 30r: aut mundana machina dissolvetur./ $\tau\epsilon\lambda\omicron\sigma$ /explicit tractatus sperae magistri Ioannis de Sacrobosco Anglici.

f. 31: Blank.

USUAL DIAGRAMS.

foll. 32r-85r: HYGINUS. ASTRONOMICA II-III.

f. 32r: Sed quoniam quae nobis de terrae positione dicenda...

f. 85r: et est stellarum omnino duodecim.

PEN DRAWINGS WITH COLOURED WASH AND STARS INDICATED FOR BOOK III:

f. 64v: Draco inter arctos. f. 65v: Arctophylax. f. 66r: Corona. f. 66v: Hercules. f. 67r: Lyra. f. 67v: Cygnus. f. 68r: Cepheus. f. 68v: Cassiopeia. f. 69r: Andromeda. f. 70r: Perseus. f. 70v: Heniocus. f. 71v: Serpentarius. f. 72r: Sagitta. f. 72v: Aquila. f. 73r: Delphinus. f. 73v: Equus. f. 74r: Aries and Deltoton. f. 74v: Taurus. f. 75r: Gemini. f. 75v: Cancer. f. 76r: Leo. f. 76v: Virgo. f. 77r: Scorpio and Libra. f. 77v: Sagittarius. f. 78r: Capricornus. f. 78v: Aquarius. f. 79v: Pisces; Pistrix. f. 80r: Eridanus. f. 80v: Lepus. f. 81r: Orion. f. 81v: Canis. f. 82r: Procyon. f. 82v: Argo. f. 83v: Centaurus; Ara. f. 84v: Hydra, crater, corvus. f. 85r: Piscis.

(For Serpentarius (no Scorpio), see Saxl I, pl. VI. 12).

foll. 85v-110r: GERARDUS. THEORICA PLANETARUM. (Ed. F. J. Carmody, Berkeley, 1942).

f. 85v: Red: Theorica planetarum incipit et cetera./ Circulus etcentricus vel egressae cuspidis vel...

f. 110r: coniuncti lumine et non corporaliter./explicit theorica planetarum per me Iacobum comitem filium Antonii Iularii scripta.

foll. 110v-111r: GERARDUS. CAP. DE REFLEXIONE (THEORICA PLANETARUM, ed. Carmody, pp. 49-51).

f. 110v: Red: Istud inveni in alia Theorica planetarum loco illius capitula. Aspectus planetarum./Linea egrediens in centro terrae per centrum corporis...

f. 111r: inaequalitas. Anni christi gradus minuta secunda. Finis.

foll. 112r-122r: DIAGRAMS AND ROTA.

f. 112r: Nota quod idem est medius motus solis cum medio motu mercurii./Ecce vides quomodo lineae de quibus dixit auctor in Theorica planetarum linea ... infrascripta figura percipere potes.

f. 113r: Figura solis et est verax.

f. 113v: Figura veneris et trium signorum superiorum est eodem.

f. 114v: Figura trium signorum et est verax.

f. 115r: Figura trium superiorum.

f. 115v: Figura mercurii.

f. 116r: Eclipse of moon.

f. 116v: Nota quod sinus equalis et corda medietatis arcus sunt idem ... est totius sinus equalis.

f. 117r: Spera aspectum.

f. 118r: Cauda draconis.

foll. 119v-120v: De ventis. Venti ita disponitur ut signa ... discipet (?) et cetera.

f. 121r: Rota of seasons.

f. 122r: Figura solis et est verax.

foll. 122v-128r: Blank.

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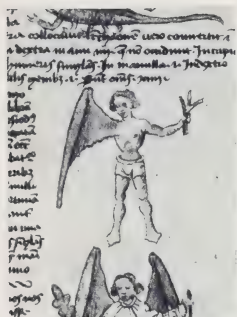
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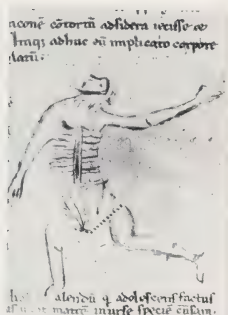
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- Ymago (sic), see Aries
- Zodiac Man 44
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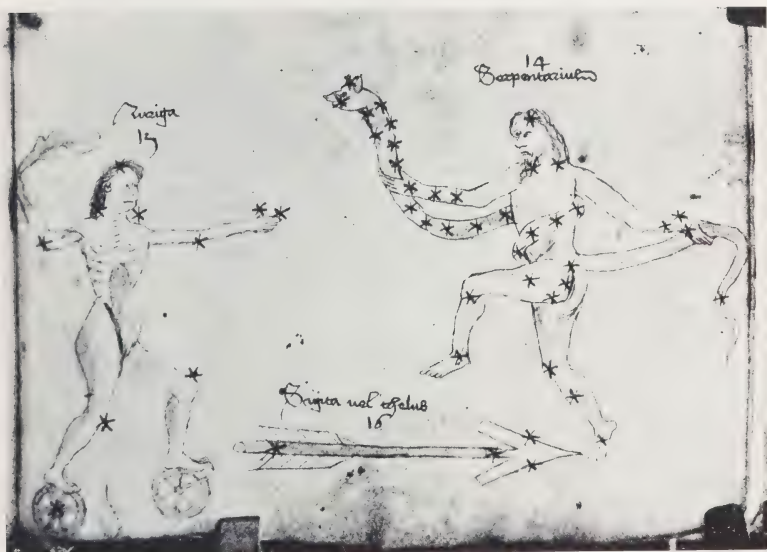
a, Bootes: Vat. Reg. lat.
1324, f. 28 v.



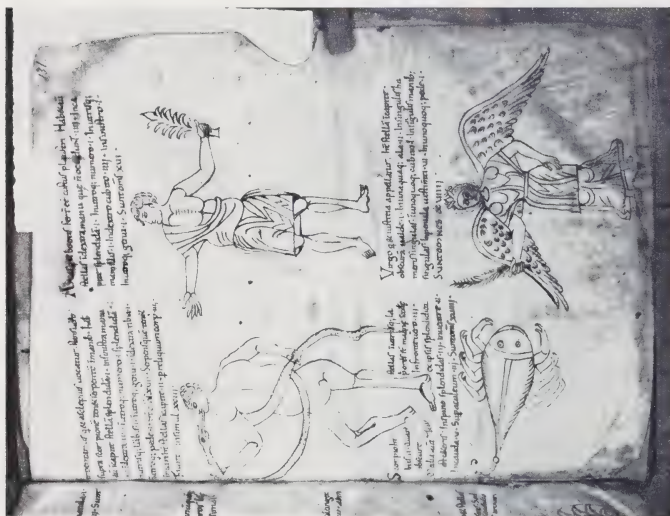
b. Bootes: Vat. Pal. lat.
1369, f. 148 r.



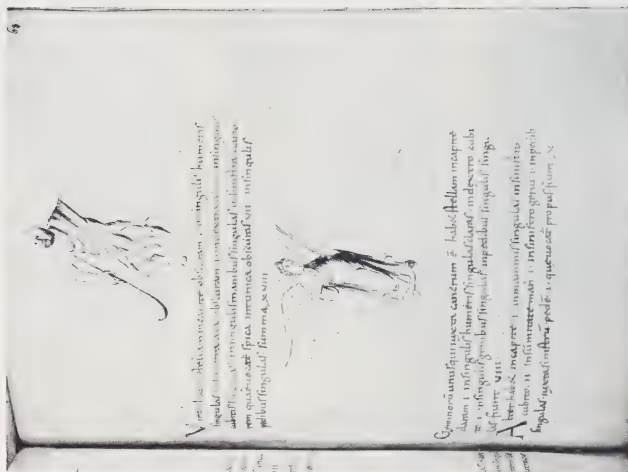
c. Bootes: Florence, Bibl.
Laur. Plut. 29. 30, f. 6 v.



d. Auriga, Serpentarius, Sagitta: Vat. Pal. lat. 1369, f. 149 r.



a. Serpentarius, Scorpio, Bootes, Virgo; Padua, Bibl. Anton. 27, f. 131 r.



b. Bootes, Virgo; Monza, Bibl. Capit. F. 9/176, f. 63 r.



a. Cepheus: Bergamo, Bibl. Civ. 1177, f. 92 v.

ngulis humeris singulas in singulis
aras singulas in dextera parte corp
ramilla oblectum unam in dex



b. Bootes: Florence, Bibl. Laur. Plut. 89 sup. 43, f. 14 v.

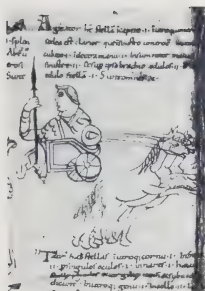
re virgo c. de natura deos



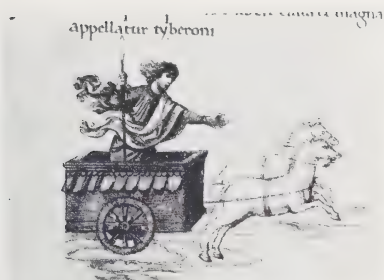
c. Bootes: Florence, Bibl. Laur. Plut. 40. 53, f. 42 v.



d. Corona septentrionalis, Bootes, Hercules: Florence, Bibl. Naz. Centr. Angeli 1147 A. 6, foll. 7 v. - 8 r.



a. Agitator: Padua,
Bibl. Ant. 27, f. 131v.



b. Agitator: Florence, Bibl. Laur. Plut. 89
sup. 43, f. 20 r.



c. Agitator: Venice, Bibl. Marc. Lat. VIII.22
(2760), f. 32 v.



d. Auriga, Equus Pegasus: Florence, Bibl. Nat.
Centr. Angeli 1147 A. 6, foll. 9 v - 10 r.



a. Alayot: Catania,
Bibl. Univ. 87, f. 9r.



b. Agitator: Florence, Bibl. Laur.
Plut. 89 sup. 43, f. 78 v.



c. Aiaioth:
Bergamo, Bibl. Civ.
1177, f. 95 v.



d. Cassiopeia: Padua,
Bibl. Semin. 48, p. 28.



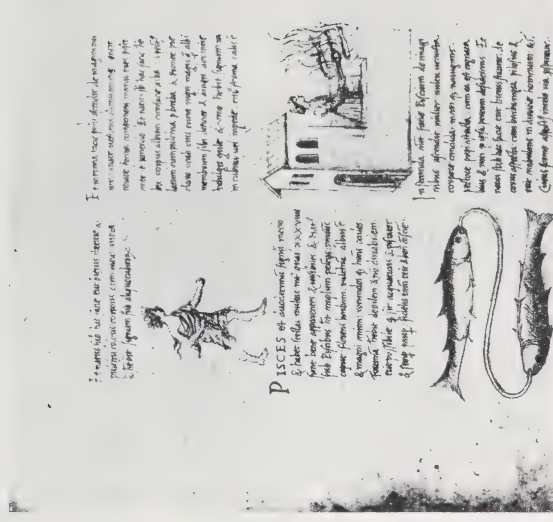
e. Joculator: Padua,
Bibl. Semin. 48, p. 40



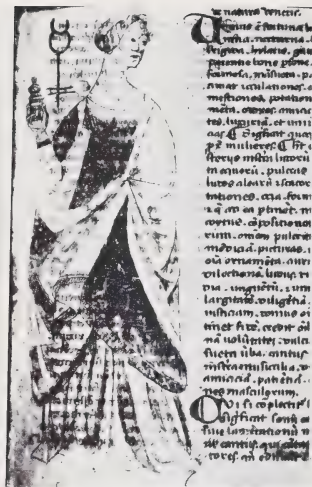
f. Perseus: Padua, Bibl.
Semin. 48, p. 31.



a. Sagittarius Decans: Florence, Bibl. Riccard. 3011, f. 15 r.



b. Third Decan of Aquarius, Pisces, First Decan of Pisces: Florence, Bibl. Riccard. 3011, f. 16 v.



a. Venus: Siena, Bibl. Comun. L. X.42, f. 29r.



b. Jupiter: Siena, Bibl. Comun. L. X.42, f. 21 v.

condem etiam e tuben q de pupae casu nectur quom fater omis
in una parcom ad firmam quod locuti f est:



c. De XII fortitudinibus: Venice, Bibl. Marc. Lat. VIII.22 (2760), f. 3r.

reuertere uolunt;



d. Heavenly sphere: Florence, Bibl. Laur. Plut. 40.53, f. 41 v.

Item 1. infinito penore clare et mirabilis circapio pponis
[fol. 11] Caput autem de har p[er] singulis stellis notata sunt.



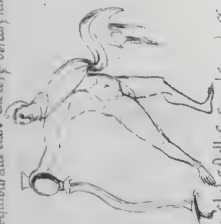
Item quædam singulas et singulas in singulis in
minibus communum singulas in minibus singulas in finibus
adhibere unam partem VIII.



Cignus habet bellum in capite clarum. i. interaque alba quina
in corpore. i. in cauda unam fuit. XII



Aquarius in hoc stellis singulis obtinetur. ii. in numeris singulis
claus singulis in infinitum currit. claus in die et nocte cultus
Germani. i. singulis singulis in die et nocte. i. in die
singulis claus singulis. xii. effusio aque in nocte est. doli
lus. xxx. equibus ducuntur. ceteris obtinentur.



Capricornus habet pedes in singulis cornibus singulis in
clavum u. in apert. u. sub collo u. in pectore u. in ped
priori u. in fune recte pedis u. in dorso u. in uentre u.
in cauda u. clavis in ma. ~~xxx~~ ^{xxxiii}



a. Perseus, Lyra, Cignus: Monza, Bibl. Capit. F. 9/176, f. 66 r.

b. Aquarius, Capricornus: Monza, Bibl. Capit. F. 9 176, f. 66 v.

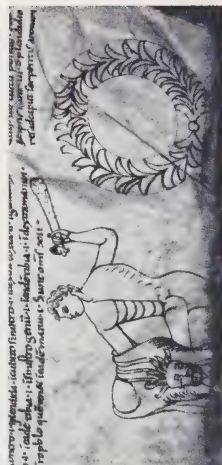


d

c

b

a



e

- a. Saturn, Jupiter, Mars, Sun: Parma, Bibl. Palatina Palat. 74, f. 3 v.
 b. Saturn, Jupiter, Mars: Florence, Bibl. Laur. Medic. Palat. 89, f. 3 r.
 c. Venus and Mercury: Parma, Bibl. Palatina Palat. 71, f. 4 v.
 d. Algiechus: Bergamo, Bibl. Civ. A. Mai 1177 (Σ II 2), f. 93 v.
 e. Hercules Caronis: Padua, Bibl. Antoniana 27 f. 130 v.

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